COMMITTEE: University Curriculum Committee (2:05 pm - 5:00pm)

MEETING DATE: January 26, 2012

PERSONS PRESIDING: Donna Kain

REGULAR MEMBERS IN ATTENDANCE: Reece Allen, Leigh Cellucci, Kanchan Das, Ron Graziani, Annette Greer, Donna Kain, and Angela Whitehurst

EX-OFFICIO MEMBERS IN ATTENDANCE: Linner Griffin, Megan Perry, and Ron Preston

EXCUSED: SGA representative and Derek Alderman

ABSENT: None

SUPPORT: Kimberly Nicholson

OTHERS IN ATTENDANCE:
  College of Allied Health Sciences: Jamie Perry
  College of Technology and Computer Science: David Batie and Leslie Pagliari
  Thomas Harriot College of Arts and Sciences: Marieke Van Willigen

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ACTIONS OF MEETING

Agenda Item: I. Call to Order

(1.) Minutes
   The 01-12-12 UCC minutes were distributed and approved via e-mail for an electronic vote then forwarded to the Faculty Senate for agenda placement.

   Discussion:

   none

   Action Taken:

   none

(2.) Announcements
Dr. Kain reported that she presented the 12-8-11 minutes to the Faculty Senate. It is now policy that the UCC Chair will notify college liaisons when packets are submitted to UCC so that all liaisons are aware of program actions. Chancellor Ballard has approved the CAMP materials. A new Student Government Association representative has not yet been identified.

Discussion:

none

Action Taken:

none

Agenda Item: II. College of Allied Health Sciences, Department of Communication Sciences and Disorders

(1.) Proposal of New Course: CSDI 4440

Discussion:

Dr. Jamie Perry discussed the proposal. She said that this course is to become a core course and a pre-requisite for the graduate program. The memorandum of request should note that this brings about a revision of the degree.

In the course proposal form, Dr. Greer pointed out that distance learning phrase is checked for face to face and off campus. Since this course is not to be delivered this way, this should not be checked on the form.

In the justification, the department noted deficiencies in the offering of neurology subject matter. Dr. Greer recommended that it also be noted that the faculty has voted and approved this new course.

Drs. Kain and Greer recommended that Dr. Perry consider the wording that refers to masters accreditation for a change in an undergraduate course.

Dr. Griffin asked if the students are only required to take one course to master this core subject matter. Dr. Perry explained that the survey course also addresses this subject matter. Dr. Griffin recommended that the term “advanced” therefore be removed.

The unit confirmed that it would be best to remove the (S) term designation, as the term the course is offered might vary.
Dr. Greer spoke to the course objectives. Objectives should begin with a measurable verb. She recommended Dr. Perry consider Bloom’s taxonomy. She also recommended the reference to ISBE standards be removed from the objectives statement when discussion revealed this may be overstated.

Dr. Allen recommended fixing formatting issues within the course outline.

Dr. Das noted that the course syllabus should include the standard grading range.

Dr. Greer noted that the marked catalog should reflect any changes made in the proposal should also be made in the marked catalog copy. The proposal and catalog copy should be the same.

**Action Taken:**

Dr. Perry moved that the proposal be approved as amended. Ms. Whitehurst seconded. Motion passed.

(2.) Revision of Existing Degree: BS in Speech and Hearing Sciences

**Discussion:**

Dr. Allen asked about the change of degree hours. This should also be reflected in the marked catalog copy. The core hours would change from 30 to 33.

Dr. Kain recommended that the semester designation should only be included if the department is certain it will only be offered in the semester indicated. Semester designations are not required.

**Action Taken:**

Dr. Perry move that the proposal be approved as amended. Ms. Whitehurst seconded. Motion passed.

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**Agenda Item:** III. Thomas Harriot College of Arts and Sciences, Department of Sociology

The committee noted punctuation and prerequisite inconsistencies in text such as “or consent of instructor” throughout the SOCI course list and degree text. Rather than have the unit make these revisions, they would like Diane Coltraine to editorially fix these types of issues in the minutes document so that the terminology and punctuation is consistent.

(1.) Proposal of New Course: SOCI 1010

**Discussion:**
Dr. Van Willigen presented. This course is a freshman level course to introduce issues of race, gender, and class. This also responds to the call from the College of Education, which asked for lower division courses that would meet diversity needs.

Dr. Preston asked if Dr. Van Willigen planned to take this proposal to College of Education for CTE approval as well. He noted that he could take it back to the College of Education and initiate this discussion for approval for use in education programs.

Ms. Whitehurst noted that the course description and marked catalog copy need to be the same.

Dr. Griffin noted that all objectives should have measurable verbs.

Dr. Kain recommended that the term “blackboard” be removed as course delivery of materials may change.

**Action Taken:**

Dr. Griffin moved that the proposal be approved as changed. Ms. Whitehurst seconded. Motion passed.

(2.) Revision of Existing Courses: SOCI 3213, 3216

**Discussion:**

This change is to correct a mistake in the catalog. The course descriptions had been (years ago) matched with the incorrect course number. This is to correct this and match the correct course descriptions with the course title and number. It was noted that due to the duration of time that had lapsed since the mistake, and the fact the package is reflected in the catalog as presented by the sociology faculty, a former UCC chair made the determination that a new package submission would be required to rectify the issue.

Dr. Graziani and Ms. Whitehurst requested the justification text be expanded for clarity.

Ms. Whitehurst noted that the course description in items 5 and 19 of the proposal form, and the marked catalog copy, need to be the same.

Dr. Griffin noted that all objectives should have measurable verbs and recommended combining the goals into one list.

Dr. Kain recommended that the term “blackboard” be removed as course delivery of materials may change.
Dr. Griffin and Dr. Preston recommended replacing reference of “week” in the course content outline with “unit.”

Dr. Allen recommended formatting and punctuation revisions.

Action Taken:

Dr. Griffin moved that the proposal be approved as changed. Ms. Whitehurst seconded. Motion passed.

(3.) Revision of Existing Degrees: BA in Sociology, BS in Applied Sociology

Discussion:

Both programs will require 33 credits.

Action Taken:

Dr. Griffin moved that the proposal be approved. Ms. Whitehurst seconded. Motion passed.

(4.) Revision of Existing Minor: Sociology Minor

Discussion:

No discussion.

Action Taken:

Dr. Griffin moved that the proposal be approved. Ms. Whitehurst seconded. Motion passed.

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Agenda Item: IV. College of Technology and Computer Science, Department of Technology Systems

(1.) Deletion of Existing Minor(s): Occupational Safety and Health Minor

Discussion:

Dr. Pagliari noted that only one student had minored in this subject in the past five years. The faculty reviewed the minor and agreed that the minor was no longer needed.

Action Taken:
Dr. Allen moved that be proposal be approved. Dr. Preston seconded. Motion passed.

Agenda Item: V. College of Technology and Computer Science, Department of Construction Management

(1.) Proposal of New Courses: CMGT 3710, 3711; 4200; 4310; 4320; 4340

Discussion:

Dr. Batie discussed the changes proposed. He noted that the changes are in response to a 2010-2011 accreditation review. A program task force was formed and made the proposed recommendations.

Dr. Greer commended the inclusion of the flow charts, which helped the committee members understand the program changes.

CMGT 3710, 3711

This course was developed by a departmental task force for concentration in infrastructure.

Dr. Das reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered. He also noted that the justification should state that the faculty approved the course.

Dr. Allen recommended the font be consistent in the description box.

Dr. Griffin confirmed that “lab” should not be in the title and that this would be checked for all occurrences of the course in the marked catalog copy.

Dr. Das recommended that it be noted that this course is an elective for other CMGT majors.

Dr. Griffin asked about the textbook listed in the syllabus (1998). Is there a more recent edition? Dr. Batie noted that this was the standard. Dr. Das reminded that the ISBN number be included and the full references be included. Dr. Allen requested the unit verify the “Trans Mio8ntaion” publisher reference.

Dr. Das recommended that the course objectives include, “At completion of the course, students will be able to . . .” The use of Bloom’s taxonomy was recommended to raise one of the two instances of “understand” to a higher level.

Dr. Allen reminded Dr. Batie to include the grading scale.

CMGT 4200
Dr. Allen reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered.

Dr. Das recommended that the course objectives include, “At completion of the course, students will be able to . . .” He also recommended that the justification should state that the faculty approved this course.

Minor revision of the descriptive text was recommended, which should be carried into the syllabus and marked catalog copy.

Dr. Allen and Dr. Kain recommended adding the tag line for the objectives and combining the course goals and learning objectives into one list.

Dr. Allen reminded Dr. Batie to include the grading scale.

CMGT 4310

Dr. Das reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered. He also noted that the justification should state that the faculty approved the course.

Dr. Das suggested removal of “Minimum grade of C in CMGT 4100” as a prerequisite, as this prerequisite is satisfied when the students take CMGT 4200. This change should be carried over into the syllabus.

Dr. Das recommended that the course objectives include, “At completion of the course, students will be able to . . .” Dr. Greer recommended “understand” be replaced with “classify” or “explain” or other measureable verb.

Dr. Allen reminded Dr. Batie to include the grading scale. Also noted was the catalog copy and the course description need to match.

Dr. Allen reminded the unit that the reference for the text should be complete and include the ISBN.

CMGT 4320

Dr. Das reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered. He also noted that the justification should state that the faculty approved the course. Dr. Perry recommended replacing “addition” to additional” in the justification.

Dr. Das recommended revision of the descriptive text to be more concise. This change should carry over to the syllabus and marked catalog copy.
Dr. Das recommended that the course objectives included, “At completion of the course, students will be able to . . .” Dr. Kain and Dr. Preston recommended replacing “understand” with “describe” or another measureable verb. Dr. Greer recommended a health objective be added to map to the course description.

Dr. Das and Dr. Kain reminded Dr. Batie to include the grading scale.

CMGT 4340

Dr. Allen reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered. He also noted that the justification should state that the faculty approved the course.

The unit stated that use of ECON 2133 as a prerequisite did not require notification to the Department of Economics, as this course is already used in their program.

Dr. Allen recommended that the course objectives included, “At completion of the course, students will be able to . . .” Dr. Greer and Dr. Allen recommended replacement of “understanding” and “gain a basic understanding” with “identify” or “describe” or “analyze” or other measureable verb.

Dr. Allen reminded Dr. Batie to include the grading scale.

Action Taken:

Dr. Das moved that the proposal be accepted as amended. Dr. Greer seconded. Motion passed.

(2.) Revision of Existing Course: CMGT 2200

Discussion:

Dr. Allen reminded the unit that the appropriate box needed to be checked regarding how the course would be delivered.

Dr. Perry noted that the justification should state that the faculty approved the revision of this course and that this course would allow for flexibility within the curriculum.

Dr. Allen and Dr. Kain reminded the unit that the reference for the text should be complete and include the ISBN.

It was recommended the unit replace the objective “know” with “list” or “describe” or “explain” the future roles.
Dr. Allen reminded Dr. Batie to include the grading scale.

**Action Taken:**

Dr. Das moved that the proposal be accepted as amended. Dr. Greer seconded. Motion passed.

(3.) Renumbering and Revision of Existing Courses: CMGT 2558 (to 3150); CMGT 2660, 2661 (to 2400, 2401); CMGT 2800 (to 3010); CMGT 3100 (to 2600); CMGT 3662, 3663 (to 3600); CMGT 4600, 4601 (to 4300); CMGT 4664 (to 4400)

**Discussion:**

CMGT 2558 to 3150

Dr. Das and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included. She also recommended combining the units into one list and include the objectives tag line, “At completion of the course, students will be able to . . .”

Dr. Allen recommended reference to the “C Wall” or requirement to have a C to progress be stated consistently through all of the proposal forms.

CMGT 2660, 2661 to 2400, 2401

Dr. Das and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included.

Minor punctuation revisions recommended in the descriptive text, which should be carried over to the syllabus and marked catalog copy.

Dr. Kain noted that the course objectives should include, “At completion of the course, students will be able to . . .” Dr. Allen recommended the of Bloom’s taxonomy as a tool to assist in selecting measureable verbs.

Dr. Kain also reminded Dr. Batie to include the grading scale.

Dr. Allen asked if the current personnel is adequate or not adequate and that the appropriate box be checked. (Dr. Batie responded that it was adequate.)
CMGT 2800 to 3010

Dr. Allen and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included.

Dr. Kain also reminded Dr. Batie to include the grading scale.

Dr. Allen reminded that the lab should be noted as zero credit hours.

CMGT 3100 to 2600

Dr. Allen and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included. She also noted that the course objectives should include, “At completion of the course, students will be able to . . .” Dr. Greer and Dr. Allen recommended replacing “understand” and “learn how to” with “interpret” or “explain” or “identify” or “list” or other measureable verbs.

Dr. Allen asked what the acronym “CD’s” represented and recommended spelling this out in the syllabus.

Dr. Kain also reminded Dr. Batie to include the grading scale.

CMGT 3662, 3663 to 3600

The unit was asked to identify 3662, 3663 as the original course numbers in #3 requested action section of the proposal form.

Dr. Allen and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included. She also noted that the course objectives should include, “At completion of the course, students will be able to . . .” It was recommended the unit replace “understand” with “analyze” or “describe” and fix the course topics heading Ethics.

Dr. Kain also reminded Dr. Batie to include the grading scale.
She asked about the lab. Dr. Batie replied that there was no lab component; so, it should not be noted that there is a lab.

CMGT 4600, 4601 to 4300

The unit was asked to identify 4600, 4601 as the original course numbers in #3 requested action section of the proposal form.

Dr. Allen and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included.

The committee recommended revision of the descriptive text. This change should be carried over into the syllabus and marked catalog copy.

She also noted that the course objectives should include, “At completion of the course, students will be able to . . .”

Dr. Kain also reminded Dr. Batie to include the grading scale.

Dr. Griffin requested Dr. Batie to notify the Writing Across the Curriculum Committee of the renumbering and course revision.

Dr. Griffin reminded that catalog copy and course description need to be the same.

CMGT 4664 to 4400

Dr. Batie noted that this is a capstone course. The committee requested revision of the descriptive text to include this information. This change should be carried over to the syllabus and marked catalog copy.

Dr. Allen and Dr. Griffin noted that the section regarding expected, future delivery needed to be checked.

Dr. Kain noted that the fact that the faculty had voted and approved this revision should be included.

She also noted that the course objectives should include, “At completion of the course, students will be able to . . .”

Dr. Kain also reminded Dr. Batie to include the grading scale.
Action Taken:

Dr. Das moved that the proposal be accepted as amended. Dr. Greer seconded. Motion passed.

(4.) Renumbering of Existing Courses at the Same Level with No Content Revision; Prerequisite and/or Co-requisite Revision Only: CMGT 3558 (to 3950); CMGT 3660 (to 3400); CMGT 3664 (to 3500); CMGT 3666, 3667 (to 3700, 3701); CMGT 3766, 3767 (to 3800, 3801); CMGT 3726 (to 3900); CMGT 4660 (to 4000); CMGT 4662 (to 4100); CMGT 4666 (to 4380)

Discussion:

Dr. Kain said that since these are the same courses, same syllabus, and had prior approval, the committee members do not need to discuss content for each individually. (The content is not changing.)

Action Taken:

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

(5.) Deletion of Existing Active Course(s): CMGT 2664, 2665; 4506; 4558; 4668

Discussion:

No discussion.

Action Taken:

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

(6.) Deletion of Existing 5000-level Course from Undergraduate Catalog Only (course will remain active for graduate-level students in the graduate catalog): CMGT 5503

Discussion:

No discussion.

Action Taken:

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.
(7.) Deletion of Existing Banked Course(s): CMGT 2242, 3101, 3278, 4266

**Discussion:**

No discussion.

**Action Taken:**

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

(8.) Revision of Departmental Admission Text: Department of Construction Management

**Discussion:**

Dr. Allen asked how many students are affected by the statement “Probation status will be allowed for a maximum of one semester; after that time students with a cumulative grade point average below 2.0 will be dropped from the department.” Dr. Batie said that this occurs for about one student every two years.

**Action Taken:**

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

(9.) Revision of Existing Degree: BS in Construction Management

**Discussion:**

Numerous committee members said that the courses listed in the degree section need to match the descriptions in the course list. Special attention in all courses that are renumbered, to ensure that the formerly statement in the course descriptions are correct as well.

Dr. Griffin noted that because of this change, the core is 51. This needs to be reflected in the catalog copy.

Dr. Allen requested that the concentration options section (current #5) to follow the core, (current #2) and become the new #3.

Dr. Allen also recommended that the construction management section (current #3) be deleted. Students can find the construction management electives in the catalog course list; thus, they do not have to be identified specifically.

Dr. Griffin noted that the concentration options section should include that it requires 9 hours.
Action Taken:

Dr. Das moved that the proposal be accepted as amended. Dr. Greer seconded. Motion passed.

Dr. Kain offered for the UCC officers to pre-review their changes to ensure that the structure looked appropriate.

(10.) Proposal of New Concentration(s): General Construction, Infrastructure Construction

Discussion:

CMGT 4310 needs to have the prerequisite match to the course list.

Dr. Griffin stated that the new concentrations will require review by EPPC.

Action Taken:

Dr. Das moved that the proposal be accepted as amended. Dr. Greer seconded. Motion passed.

(11.) Deletion of Existing Concentration(s): Commercial Construction Management (CCM)

Discussion:

No discussion.

Action Taken:

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

(12.) Revision of Existing Option Text: Construction Management Transfer Option

Discussion:

No discussion.

Action Taken:

Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.
(13.) Revision of Existing Minor(s): Construction Management Minor

Discussion:
No discussion.

Action Taken:
Dr. Das moved that the proposal be accepted. Dr. Greer seconded. Motion passed.

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Agenda Item: VI. Old Business

Dr. Allen moved that old and new business be tabled. Dr. Perry seconded. Motion passed.

(1.) Banked courses process: 5000-level banked courses previously deleted from the graduate catalog

(2.) Undergraduate banked courses process – report from subcommittee

(3.) Undergraduate courses not offered in 10+ years

(4.) Proposal justifications – draft of suggestions (provided at meeting)

(5.) Discuss review of the 2011-2012 Undergraduate Curriculum and Program Development Manual

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Agenda Item: VII. New Business

(1.) Revise Undergraduate University Curriculum Committee Course Banking Form

(2.) Create helpful hints document for certificates, concentrations, and program revision packages

(3.) Review of Form to Discontinue a Certificate or Minor
Curricular Actions Reviewed at This Meeting:
New Courses: 8
Revised and/or Renumbered Courses (includes title/prereq./prefix): 19
New Degrees/Programs: 0
New Minors 0
New Concentrations: 2
New Certificates: 0
Revised Existing Degrees/Concentrations/Departmental Text: 5
Deletion of Existing Degrees/Concentrations: 1
Revised Minors/Certificates: 2
Deletion of Existing Minors/Certificates: 1
Banked Courses: 0
Deletion of Existing /Banked Courses: 10

Curricular Actions Reviewed to Date (to include this meeting):
New Courses: 40
Revised and/or Renumbered Courses (includes title/prereq./prefix): 46
New Degrees/Programs: 1
New Minors: 0
New Concentrations: 2
New Certificates: 0
Revised Existing Degrees/Concentrations/Departmental Text 12
Deletion of Existing Degrees/Concentrations: 1
Revised Minors/Certificates: 8
Deletion of Existing Minors/Certificates: 1
Banked Courses: 0
Deletion of Existing /Banked Courses: 14

NEXT MEETING: February 9, 2012

ITEMS TO BE DISCUSSED:

Dr. Kain said that the old and new business items need to be discussed at the next meeting on 9 Feb.

ADJOURNMENT: Dr. Griffin moved to adjourn at 5:00pm Motion passed. Meeting adjourned.

Respectfully Submitted by

Leigh W. Cellucci
Secretary of the UCC
Marked Catalog Copy:

Agenda Item II

College of Allied Health Sciences

Department of Communication Sciences and Disorders

http://www.ecu.edu/cs-acad/ugcat/CoursesC.cfm#csdi

CSDI: Speech and Hearing Sciences

2100. Introduction to Communication Disorders (3) (F,S,SS)
   3 lectures per week plus observation of speech therapy sessions. Scope, history, and nature of speech-language pathology and audiology. Topics include development of language and psychology of speech and hearing impaired as well as a description of etiology, symptomatology, and treatment of major speech, hearing, and language disorders.

3010. Phonetics (3) (F)
   P: CSDI major or minor; CSDI 2100; PSYC 1000; or consent of instructor. Applied phonetics using International Phonetic Alphabet and pertinent modifications. Detailed descriptions of American English speech sounds and transcription of contextual speech representing mainstream and non-mainstream dialects. Transcription abilities developed to assess and treat speech disorders.

3020. Language Development (3) (F)
   P: CSDI major or minor; CSDI 2100; PSYC 1000; or consent of instructor. Normal acquisition and development of language from birth through preschool years, components of language, cognitive and communicative prerequisites, and language learning theories.

3030. Speech Science: Anatomy, Physiology and Acoustics (3) (F)
   3 lecture and 1 lab hours per week. P: BIOL 1050, 1051; CSDI 2100; or consent of instructor. Anatomy, physiology, and acoustic correlates of speech production mechanisms. Central and peripheral nervous systems, respiration, phonation, resonation, and articulation.

3050. Acquisition and Development of Phonology and Articulation (3) (S)
   P: CSDI 3010, 3030; or consent of instructor. Emphasis on birth to five years and critical periods through the early teen years. Content areas include birth cry, babbling, cross linguistic and universal patterns of acquisition, morphophonology, metaphonology, historical and contemporary normative data issues, and interrelation of normal phonological development with other areas of language growth.

3105. Hearing Science (3) (F)
   P: CSDI 3030; PHYS 1050; or consent of instructor. Basic information, including acoustics, anatomy and physiology of the ear and central auditory nervous system, and psychoacoustics.

4100. Introduction to Audiology (3) (S)
   P: CSDI 3030 or consent of instructor. Concepts related to normal hearing, causes and effects of defective hearing, and hearing testing procedures.
4110. Aural Rehabilitation (3) (S)
   P: CSDI 4100 or consent of instructor. Habilitation, rehabilitation of the hearing impaired as related to hearing aid use, speech-reading, auditory training, and total communication. Management philosophies related to children and adults.

4335. Apprenticeship (3) (WI) (S)
   1 staffing, 1 lecture, and 3-4 lab hours per week. P: CSDI major; consent of departmental director of undergraduate studies; minimum of 25 hours observation of treatment as administered or supervised by ASHA certified speech-language pathologists/audiologists; CSDI 3020, 4100, 5010. Develop basic clinical skills through observation and apprenticeship. Apprentice serves as assistant to graduate clinicians in management of patients. Additional responsibilities assigned as part of experience.

4440. Neural Processing in Speech and Language (3) P: CSDI 3030 or consent of instructor.
   Study of neuroanatomy and neurophysiology including current research of nervous system structures and functions important for speech and language. Critical analyses of current theories of the neurophysiology utilized in speech and language.

5010. Procedures in Clinical Management (3)
   P for undergraduate students: CSDI major; CSDI 3020, 3050, 3105; or consent of instructor; P for graduate students: Consent of instructor. Procedures used in diagnostic and treatment of communication disorders. Topics include observation styles, task presentation and analysis, reinforcement techniques, group management, and intervention models. Multicultural communication models and supervised observation experiences in various clinical and public school settings.

5510, 5511, 5512. Special Problems in Speech and Hearing (2,2,2)
   For advanced senior and graduate students. May be repeated for maximum of 6 s.h. May count toward the CSDI major with consent of dept chair. Independent exploration of specific areas of interest in communication disorders and research.

5565. Seminar in Augmentative Communication (3)
   2 and 1/2 lecture and 1 lab hours per week. P: Consent of instructor. Interdisciplinary approach to augmentative communication. Emphasis on team approach, including discussion of and experience with patients who require use of augmentative communication systems. Areas of study include assessment, intervention, neuromotor management, environmental control, computer access, and funding.

CSDI Banked Courses
   4000. Introduction to Speech Disorders (5) (F)
   4020. Introduction to Language Disorders (3) (F)
   5100. Introduction to Speech-Language and Hearing Disorders(2)

http://www.ecu.edu/cs-acad/ugcat/CommSciDisorder.cfm

College of Allied Health Sciences

Department of Communication Sciences and Disorders
Gregg D. Givens, Chair, 3310W Health Sciences Building

BS in Speech and Hearing Sciences

The undergraduate program emphasizes the normal processes of speech, hearing, and language and allows the student to explore other academic areas of interest. Since the master’s degree is the minimum level of preparation for persons seeking professional careers in this field, the BS degree does not qualify the student to work professionally but is designed to prepare the student for graduate studies. Admission to the university does not assure admission to the program. Students are initially admitted to the General College. In order to be considered for admission to the program, the student must have a minimum cumulative 3.0 GPA and must have completed CSDI 2100 with a minimum grade of B, and be interviewed prior to formal admission into the program. These requirements are generally completed by the end of spring semester of the sophomore year. Majors must maintain a cumulative 3.0 GPA for all required CSDI courses. A major earning a D in any CSDI course must petition the Department of Communication Sciences and Disorders for probationary continuation and will be required to repeat the course. Minimum degree requirement is **121 s.h.** of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) including those listed below - 42 s.h.

   - BIOL 1050. General Biology (3) (F,S,SS) (FC:SC)
   - BIOL 1051. General Biology Laboratory (1) (F,S,SS) (FC:SC)
   - MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   - PHYS 1050. Physics and the Environment (4) (F,S,SS) (FC:SC)
   - PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)

2. Core – **30-33** s.h.

   - CSDI 2100. Introduction to Communication Disorders (3) (F,S,SS)
   - CSDI 3010. Phonetics (3) (F: CSDI major or minor; CSDI 2100; PSYC 1000; or consent of instructor)
   - CSDI 3020. Language Development (3) (F: CSDI major or minor; CSDI 2100; PSYC 1000; or consent of instructor)
   - CSDI 3030. Speech Science: Anatomy, Physiology, and Acoustics (3) (F: BIOL 1050, 1051; CSDI 2100; or consent of instructor)
   - CSDI 3050. Acquisition and Development of Phonology and Articulation (3) (S: CSDI 3010, 3030; or consent of instructor)
   - CSDI 3105. Hearing Science (3) (F: CSDI 3030; PHYS 1050; or consent of instructor)
   - CSDI 4100. Introduction to Audiology (3) (S: CSDI 3030 or consent of instructor)
   - CSDI 4110. Aural Rehabilitation (3) (S: CSDI 4100 or consent of instructor)
CSDI 4335. Apprenticeship (3) (WI) (S) (P: CSDI major; consent of dept director of undergraduate studies; minimum of 25 hours of observation of treatment as administered or supervised by ASHA certified speech-language pathologist/audiologist; CSDI 3020, 4100, 5010)

CSDI 4440. Neural Processing in Speech and Language (3) (P: CSDI 3030 or consent of instructor)

CSDI 5010. Procedures in Clinical Management (3) (F) (P: CSDI major; CSDI 3020, 3050, 3105; or consent of instructor)

3. Cognates - 8 s.h.

BIOS 1500. Introduction to Biostatistics (3) (F,S) (P: MATH 1065 or equivalent or consent of instructor)
ENGL 3760. Linguistic Theory for Speech and Hearing Clinicians (3) (F,S) (P: ENGL 1200)
SPED 2000. Introduction to Exceptional Children (2) (F,S,SS)

4. Minor or electives to complete requirements for graduation.

Speech and Hearing Sciences Minor

A minor in speech and hearing sciences is designed to provide the student with an overview of the nature of human communication, including its origin, development, and processes. The student must have a minimum cumulative GPA of 2.75 and permission of the director of undergraduate studies of the Department of Communication Sciences and Disorders to minor.

The minor requires 24 s.h. as follows:

CSDI 2100. Introduction to Communication Disorders (3) (F,S)
CSDI 3010. Phonetics (3) (F)
CSDI 3020. Language Development (3) (F)
CSDI 3030. Speech Science: Anatomy, Physiology, and Acoustics (3) (F)
CSDI 3050. Acquisition and Development of Phonology and Articulation (3) (S)
CSDI 3105. Hearing Science (3) (F)
CSDI 4100. Introduction to Audiology (3) (S)
CSDI 4110. Aural Rehabilitation (3) (S)

Agenda Item III

Thomas Harriot College of Arts and Sciences

Department of Sociology
BA in Sociology

Credit toward the sociology major will not be given in any SOCI course with a grade of less than C. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) - 42 s.h.
2. Foreign language through level 1004 - 12 s.h.
3. Core - 15 s.h.

   SOCI 2110. Introduction to Sociology (3) (F,S,SS)
   SOCI 3213. Methods of Research (3) (F,S) (P: SOCI 2110)
   SOCI 3216. Introduction to Social Statistics (3) (F,S) (P for SOCI major: SOCI 3213; P for all other students: MATH 3228 or equivalent approved by the instructor or PSYC 2101 or SOCI 3213)
   SOCI 4385. Theoretical Perspectives and Applications (3) (WI) (P: SOCI 2110; or consent of instructor)
   SOCI 4800. Senior Seminar (3) (WI) (F,S) (P: SOCI major; SOCI 3216; 3385 or 4385)

4. SOCI electives - 18 s.h.

   **At least 12 s.h. must be above the 1999 level**

5. Minor and electives to complete requirements for graduation.

BS in Applied Sociology

Credit toward the sociology major will not be given in any SOCI course with a grade of less than C. Minimum degree requirement is **126 s.h.** of credit as follows:

1. Foundations curriculum (For information about courses that carry foundations curriculum credit see *Liberal Arts Foundations Curriculum*) including those listed below - 42 s.h.

   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   PHIL 1180. Introduction to Critical Reasoning (3) (WI*) (S) (FC:HU) or PHIL 2261. Introduction to Philosophy of Science (3) (FC:HU)

2. Common core - **36 s.h. 33 s.h.**
SOCI 2110. Introduction to Sociology (3) (F,S,SS)
SOCI 2111. Modern Social Problems (3) (F,S,SS) (P: SOCI 2110)
SOCI 3213. Methods of Research (3) (F,S) (P: SOCI 2110)
SOCI 3216. Introduction to Social Statistics (3) (F,S) (P for SOCI major: SOCI 3213; P for all other students: MATH 3228 or equivalent approved by the instructor or PSYC 2101 or SOCI 3213)
SOCI 4385. Theoretical Perspectives and Applications (3) (WI) (F,S) (P: SOCI 2110)
SOCI 4500. Work and Organizations (3) (S) (P: SOCI 2110)
SOCI 4800. Senior Seminar (3) (WI) (F,S) (P: SOCI major; SOCI 3216; 3385 or 4385)
Choose 15 s.h. of SOCI electives (at least 9 s.h. must be above the 1999 level)

3. Minor or concentration area - 24 s.h.

Students may elect to take a minor in another discipline or one of the four areas of concentration listed below. The minor or area of concentration is to be a program of study appropriate for applied sociology and the long-term objectives of the student. A course cannot simultaneously count for the area of concentration and for the required sociology courses.

Applied Social Research:
SOCI 4200. Advanced Techniques in Quantitative Sociology (3) (P: MIS 2223; SOCI 3213)
SOCI 4201. Advanced Techniques in Applied Research (3) (P: SOCI 3216)
Choose one from:
SOCI 3215. Introduction to Qualitative Sociology (3) (P: SOCI 2110 or consent of instructor)
SOCI 4202. Special Topics in Applied Social Research (3) (P: SOCI 2110; a statistics or research design course)
SOCI 4950. Practicum in Sociology (3) (F,S) (P: SOCI major; 27 s.h. in SOCI with a minimum grade of C in each course; consent of dept chair, practicum coordinator, and faculty member who will supervise the practicum)
Choose 15 s.h., including at least two disciplines other than sociology from:
ANTH 3050. Ethnographic Field Methods (3) (S) (P: ANTH 2010 or 2200 or consent of instructor)
COMM 2030. Communication Research (3) (F,S) (P: COMM major or minor or consent of instructor; COMM 1001, 1002)
COMM 3110. Persuasion Theories (3) (P: COMM major or minor or consent of instructor; COMM 1001, 1002)
COMM 3180. Intercultural Communication (3) (P: COMM major or minor or consent of instructor; COMM 1001, 1002)
ECON 2113. Principles of Microeconomics (3) (F,S,SS)
ECON 2133. Principles of Macroeconomics (3) (F,S,SS) (P: ECON 2113)
GEOG 2003. Geography of the Global Economy (3) (F,S)
GEOG 3430. Geographic Information Systems I (3) (F,S) (P: GEOG 2410 or equivalent)
MKTG 3832. Marketing Management (3) (F,S,SS) (P: ECON 2113)
MKTG 4662. Marketing Research (3) (WI) (F,S,SS) (P: MKTG 3832; MATH 2283)
MKTG 4732. Consumer Behavior (3) (F,S,SS) (P: MKTG 3832)
PLAN 3021. Introduction to Planning Techniques (3) (F)
PLAN 3022. History and Theory of Planning (3) (WI*) (F,S)
PLAN 5025. Coastal Area Planning and Management (3) (P: Consent of instructor)
POLS 3242. Municipal Policy and Administration (3)
POLS 3252. Public Administration (3) (F)
POLS 3253. Government Fiscal Administration (3) (S) (RP: POLS 1010)
POLS 3255. Domestic Public Policy (3) (S)
PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS)
PSYC 5343. Psychology of Organizational Behavior (3) (P: Graduate standing; PSYC 3241; or consent of instructor)

SOCI 3235. Population Trends and Problems (3) (P: SOCI 2110)
SOCI 3410. Introduction to Maritime Sociology (3) (P: ANTH 1000 or SOCI 2110)
SOCI 5500. Seminar in Population (3) (P: SOCI 2110; consent of instructor)

Law and Society:
SOCI 4320. Sociology of Law (3) (P: SOCI 2110)
SOCI 4322. Law and Social Change (3) (P: SOCI 2110)

Choose 18 s.h., including at least two disciplines other than sociology from:
ECON 3030. Antitrust and Regulation (3) (WI) (F) (P: ECON 2113)
FINA 2244. Legal Environment of Business (3) (F,SS)
FINA 3244. Commercial Law (3) (F,S) (P: FINA 2244 or consent of instructor)
JUST 1000. The Criminal Justice System (3) (F,SS)
JUST 3500. Principles of Criminal Law (3) (F,S) (P: JUST 1000, 2000)
PHIL 1175. Introduction to Ethics (3) (WI*) (F,SS)
PHIL 1180. Introduction to Critical Reasoning (3) (WI*) (S)
PHIL 1500. Introduction to Logic (3) (F,SS)
PHIL 2275. Professional Ethics (3) (WI*) (F,SS)
PHIL 2282. Philosophy of Law (3) (F,S) (P: PHIL 1175, 2275)
POLS 3204. The American Judiciary (3) (F) (P: POLS 1010 or consent of instructor)
POLS 3223. Constitutional Powers (3) (S) (P: POLS 1010 or consent of instructor)
POLS 3224. Civil Liberties (3) (P: POLS 1010 or consent of instructor)
POLS 3252. Public Administration (3) (F)
SOCI 4330. Criminology (3) (P: SOCI 2110)
SOCI 4950. Practicum in Sociology (3) (F,S) (P: SOCI major; 27 s.h. in SOCI with a minimum grade of C in each course; consent of dept chair, practicum coordinator, and faculty member who will supervise the practicum)
SOCI 5300. Seminar in Juvenile Delinquency (3) (P: SOCI 2110; consent of instructor)
SOCW 4305. Social Work Policy III (3) (Formerly SOCW 3302) (P: SOC W 3301, 3305; C: SOCW 4102, 4203)

Marriage and Family:
SOCI 4325. Marriage and the Family (3) (F,S,SS) (P: SOCI 2110)

Choose 21 s.h. including at least two disciplines other than sociology from:
ANTH 3200. Women’s Roles in Cross-Cultural Perspective (3) (EY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
CDFR 2000. Child Development I – Prenatal Through Early Childhood (3) (F,S,SS)
CDFR 3002. Child in the Family (3) (F,S,SS)
CDFR 4303. Families and Cultural Diversity (3) (F,S) (P: CDFR 1103)
CDFR 4313. Trends and Issues in Family Studies (3) (F,SS) (P: CDFR 1103)
COMM 4130. Conflict and Communication (3) (P: COMM 1001, 1002)
COMM 4135. Gender and Communication (3) (F) (P: COMM 1001, 1002; or WOST 2000 or 2400)
GERO 2400. Introduction to Gerontology (3)
HIST 3140. Women in American History (3) (F,S)
PSYC 2201. Psychology of Childhood (3) (F,S,SS) (P: PSYC 1000 or 1060 or equivalent)
PSYC 3206. Developmental Psychology (3) (WI*) (F,S,SS) (P: PSYC 1000 or 1060)
SOCI 3235. Population Trends and Problems (3) (P: SOCI 2110)
SOCI 3325. Sociology of Human Sexuality (3) (F) (P: SOCI 2110 or consent of instructor)
SOCI 4950. Practicum in Sociology (3) (F,S) (P: SOCI major; 27 s.h. in SOCI with a minimum grade of C in each course; consent of dept chair, practicum coordinator, and faculty member who will supervise the practicum)
SOCI 5335. Sociology of Marriage Problems (3) (P: SOCI 2110; consent of instructor)
SOCI 5400. Seminar in Gender Roles (3) (P: SOCI 2110; consent of instructor)
SOCI 5600. Seminar in Aging (3) (P: SOCI 2110; consent of instructor)
SOCI 5800. Seminar in the Family (3) (P: SOCI 2110; consent of instructor)
SOCW 2400. Introduction to Gerontology (3) (F,S)
SOCW 4501. Crisis Intervention (3) (F)
Social Diversity:
Choose 6 s.h. from:
SOCI 3400. Introduction to Gender and Society (3) (P: SOCI 2110)
SOCI 4345. Race and Cultural Minorities (3) (S) (P: SOCI 2110 or ANTH 1000)
SOCI 4347. Social Inequality (3) (F) (P: SOCI 2110 or ANTH 1000)
Choose 3 s.h. from:
SOCI 3325. Sociology of Human Sexuality (3) (F) (P: SOCI 2110 or consent of instructor)
SOCI 4341. Sociology of Religion (3) (S) (P: SOCI 2110)
Choose 15 s.h. electives, including at least two disciplines other than sociology from the following. Any of the six courses listed above under social diversity that are not used to fulfill those hours may be used as electives.
ANTH 3002. Cultures of East Asia (3) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3003. Cultures of Africa (3) (OY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3004. Cultures of the South Pacific (3) (EY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3005. North American Indians (3) (EY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3016. Cultures of the Caribbean (3) (S) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3017. Cultures of Mexico and Guatemala (3) (OY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3018. Cultures of South and Central America (3) (EY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ANTH 3200. Women’s Roles in Cross-Cultural Perspective (3) (EY) (P: ANTH 1000 or 2010 or 2200 or consent of instructor)
ETHN 2002. Introduction to Ethnic Studies (3)
GEOG 4320. Gender, Economy and Development (3) (S) (P: consent of instructor)
GERO 2400. Introduction to Gerontology (3)
GERO 5400. Seminar in Aging Studies (3) (P: consent of instructor)
INTL 1000. Introduction to International Studies (3) (F, SS)
INTL 2003. Introduction to Chinese Culture (3) (P: ENGL 1200)
INTL 2004. Introduction to Japanese Cultures (3)
POLS 3039. Black Politics in America (3)
POLS 3040. Women in Politics (3) (S)
POLS 3041. Women and Public Policy (3) (S)
PSYC 2777. Ethno-cultural Psychology (3) (FC:SO) (Formerly PSYC 3777) (P: PSYC 1000 or 1060)
PSYC 4335. Psychology of Women (3) (P: PSYC 1000 or 1060)
SOCI 3500. Economy and Society (3) (P: SOCI 2110)
SOCI 3600. Power and Politics in Society (3) (P: SOCI 2110)
SOCI 5100. Social Inequality (3) (P: SOCI 2110 or consent of instructor)
SOCI 5400. Gender Roles (3) (P: SOCI 2110 or consent of instructor)
WOST 2400. Introduction to Women’s Studies (3) (FC:SO)
WOST 4200. Feminist Theory (3) (WI) (F) (P: WOST 2000 or 2200 or 2400)

4. Cognates - 6 s.h.

ENGL 3810. Advanced Composition (3) (WI) (F,S) (P: ENGL 1200) or ENGL 3820. Scientific Writing (3) (F,S) (P: ENGL 1200) or ENGL 3880. Writing for Business and Industry (3) (WI) (F,S,SS) (P: ENGL 1200)
MIS 2223. Introduction to Computers (3) (F,S,SS)

5. Electives to complete requirements for graduation.

Sociology Minor

Minimum requirement for sociology minor is 24 s.h. credit as follows:

1. Core - 6 s.h.

   SOCI 2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)
   SOCI 4337. Principles of Sociology (3) (S)

2. SOCI electives - 18 s.h.

   At least 12 s.h. must be above the 1999 level
Sociology minors are encouraged to consult with the Department of Sociology when registering for SOCI electives.

**Sociology Honors Program**

The honors program in sociology is designed for outstanding sociology majors who wish additional challenge and recognition in pursuing scholarly or service work in an area of sociology. Students in the program enroll in SOCI 4550, 4551 in consecutive semesters. In consultation with the student, the departmental chairperson will appoint a faculty advisor and two faculty reviewers to comprise an honors committee that will approve, supervise, and evaluate the work of the student. Under the guidance of this committee, the student will undertake extensive reading, research, or service activities resulting in the writing of an honors paper. The honors paper will be presented to, and orally defended before, the honors committee. To qualify for the program, a student must be a senior, have the approval of the dept chair, and have a minimum cumulative and major 3.5 GPA.

http://www.ecu.edu/cs-acad/ugcat/sociology.cfm

Page 508 pdf

**SOCI: Sociology**

1010. Race, Gender, Class (3) (FC:SO)  
Introduction to the ways in which race, gender, and social class interact to influence life chances, social institutions, and social policy.

1025. Courtship and Marriage (3) (F,S,SS) (FC:SO)  
Designed for freshmen. Critical thinking and empirical knowledge relative to affectional involvement.

2110. Introduction to Sociology (3) (F,S,SS) (FC:SO)  
Nature, concepts, and principles of sociology. Society, culture, socialization, groups, institutions and organizations, class system, social change, and social processes.

2111. Modern Social Problems (3) (F,S,SS) (FC:SO)  

3000, 3001. Sociology Topics  
Three classroom and/or lab hours per week. May be repeated for maximum of 6 s.h. P: SOCI 2110; 6 s.h. of SOCI above 1999. Specialized topics and current developments.

3025. Sociology of Mass Media (3) (FC: SO)  
P: SOCI 2110. Major perspectives in sociology are used to study the role of mass media in society.

3100. Sociology of Aging (3) (FC:SO)  
P: SOCI 2110. Effects of social forces on aging and age-related issues.
3213. Methods of Research (3)
   P: SOCI 2110 or consent of instructor. Skills necessary to evaluate and interpret quantitative analyses frequently found in technical sociological reports. Research methods and techniques employed in sociology and behavioral sciences.

3215. Introduction to Qualitative Sociology (3)
   P: SOCI 2110 or consent of instructor. Qualitative approaches used in sociology for data collection and analysis.

3216. Introduction to Social Statistics (3) (F,S)
   P: SOCI 3213. Research methods and techniques employed in sociology and behavioral sciences. Skills necessary to evaluate and interpret quantitative analyses frequently found in technical sociological reports.

3219. Sociology of Immigration (3) (FC:SO)
   P: SOCI 2110. Current state of sociological knowledge and research on immigration as a social phenomenon. Attention given to trends in immigration and its impact on society.

3220. Sociology of Deviant Behavior (3) (F,S,SS) (FC:SO)
   P: SOCI 2110. Extent and nature of deviance. Traditional problems such as mental illness, suicide, and crime as well as less commonly considered organizational and occupational deviance.

3222. Rural Sociology (3) (FC:SO)
   P: SOCI 2110. American rural tradition and forces that modified it. Recent changes in agriculture and rural way of life. Rural problems and planning in changing society.

3225. Urban Sociology (3) (FC:SO)

3234. The Individual in Society (3) (FC:SO)
   P: SOCI 2110. Symbolic interactionist theories of social interaction, socialization, and social control traced from Charles H. Cooley and George H. Mead to recent theorists.

3235. Population Trends and Problems (3) (FC:SO)

3280. Industrial Sociology (3)
   P: SOCI 2110. Application of sociological concepts in understanding the production, distribution, and consumption of goods and services in modern and developing societies.

3289. Community Organization (3) (S) (FC:SO)

3325. Sociology of Human Sexuality (3) (F) (FC:SO)
   P: SOCI 2110 or consent of instructor. Human sexuality as part of social behavior and social interaction. Emphasis on sexuality as learned via social scripting.

3327. Introductory Medical Sociology (3) (FC:SO)
   P: SOCI 2110 or consent of instructor. Social aspects of health and health-related behavior.

3385. History of Sociology (3) (WI)
   P: SOCI 2110. Schools of sociological thought and development of scientific sociology from Comte to present.

3400. Introduction to Gender and Society (3) (FC:SO)
P: SOCI 2110. Various expressions of masculinity and femininity and analysis of structure of gender inequality. Attention given to intersection of gender, race, and social class.

3410. Introduction to Maritime Sociology (3) (FC:SO)
   P: ANTH 1000 or SOCI 2110. People in marine environment. Emphasis on interrelationship of social, economic, and technological systems.

3500. Economy and Society (3) (FC:SO)
   P: SOCI 2110. Current state of sociological knowledge and research on economy as a social institution.

3600. Power and Politics in Society (3) (FC:SO)
   P: SOCI 2110. Political sociology analyzing relationship of state and society. Sociological perspectives on power, politics, and the state are considered by analyzing contemporary social issues, conflicts, and political alignments.

4000, 4001. Selected Topics in Sociology (3)
   3 classroom and/or lab hours per week. May be repeated for maximum of 6 s.h. P: SOCI 2110; 6 s.h. of SOCI above 1999. Specialized topics and current developments.

4200. Advanced Techniques in Quantitative Sociology (3)
   2 lecture and 2 lab hours per week. P: MIS 2223; SOCI 3213. Techniques of statistical analysis in applied sociology. How to select statistical methods, carry them out, and present results in technical reports. Emphasis on computer exercises using contemporary statistical software.

4201. Advanced Techniques in Applied Research (3)
   P: SOCI 3216. Major techniques in applied research (e.g., needs assessment, process and outcome assessment, organizational analysis, client and consumer surveys, cost-benefit analysis, key informant surveys, and focus groups). Effective techniques for presenting applied research results.

4202. Special Topics in Applied Social Research (3)
   P: Statistics or research design course; SOCI 2110. Topics vary based on current faculty applied research.

4300. Sociology of Emotion (3) (FC: SO)
   P: SOCI 2110; or consent of instructor. Analysis of the social origins, expression, and consequences of emotion.

4320. Sociology of Law (3) (FC:SO)
   P: SOCI 2110. Legal system from social perspective. Emphasis on history of legal and punishment systems and their organization, socialization of participants, and alternatives to traditional organization.

4322. Law and Social Change (3) (F03) (FC:SO)
   P: SOCI 2110. Relationship between law and social change. In-depth analysis of social conditions leading to, and societal consequences of, such legal decisions as related to desegregation, age discrimination, abortion, euthanasia, and school prayer.

4325. Marriage and the Family (3) (F,S,SS) (FC:SO)

4330. Criminology (3) (FC:SO)

4337. Principles of Sociology (3) (S) (FC:SO)
   May not count toward SOCI major. Intensive study of basic sociological concepts and their applications to understanding modern society.

4341. Sociology of Religion (3) (S) (FC:SO)
P: SOCI 2110. Mutual effects of religion and society on each other in ongoing social system. Focus on founded religions in literate societies.

4345. Racial and Cultural Minorities (3) (S) (FC:SO)
P: ANTH 1000 or SOCI 2110. Origin and present status of American minorities, sources and consequences of prejudice and discrimination, and goals and strategies of change in race and ethnic relations.

4347. Social Inequality (3) (F) (FC:SO)
P: SOCI 2110. Stratification systems of various societies. Emphasis on concepts and theories relative to American communities.

4350. Social Change (3) (FC:SO)
P: SOCI 2110. Theoretical perspectives and cross-cultural analyses of social change in developed and developing societies and resulting consequences.

4385. Theoretical Perspectives and Applications (3) (WI)
P: SOCI 2110. History and nature of sociological theory reviewed and applied to selected social problems and social issues.

4400. Sociological Perspectives of Sport (F) (FC:SO)
P: SOCI 2110 or consent of instructor. Sociological investigation of sport through the lenses of classical, modern, and postmodern sociological theories, including issues of power, privilege, and social difference as they are manifested in sport and sports participation.

4500. Work and Organizations (3) (S) (FC:SO)
P: SOCI 2110. Contemporary problems in work and organizational settings examined from sociological perspective.

4521, 4522, 4523. Readings in Sociology (1,2,3) (F,S,SS)
May be repeated for maximum of 9 s.h. May count maximum of 9 s.h. of readings in SOCI and from practicum in SOCI (SOCI 4950, 4951, 4952) toward the BA in SOCI major or minor. P: Consent of instructor and dept chair. Extensive or selected readings taken from modern sociological research monographs or in specialized areas of sociology in which student has taken one or more courses.

4550, 4551. Honors (3,3) (F,S)
To be taken in succession. No grade or credit recorded until second course is completed. P: Senior SOCI major; admission to Sociology Honors Program. Reading, research, or service program resulting in writing of honors paper.

4800. Senior Seminar (3) (WI) (F,S)
P: SOCI major; SOCI 3216; 3385 or 4385. Integration of sociological knowledge and analysis of meaning of current sociological issues to develop sociological perspectives and better understand career choices.

4950, 4951, 4952. Practicum in Sociology (3,3,3)
140 work and academic hours per semester for 3 s.h. credit. Practicum must be arranged at least 30 days before term begins. May be taken concurrently for a maximum of 9 s.h.
P: SOCI major; 27 s.h. in SOCI with a minimum grade of C in each course; consent of dept chair, practicum coordinator, and faculty member who will supervise the practicum. Supervised internship in area of applied sociology. Practical experience in research or agency work. Parallel readings and study. Emphasis on guided application of concepts and principles from related courses and structured readings to applied situations.

5100. Seminar in Social Inequality and Diversity (3)
P for undergraduates: SOCI 2110 and consent of instructor; P for graduate students: Graduate standing in SOCI or consent of instructor. Critical examination of theory and research on stratification. Consequences for industrial and non-industrial societies. Emphasis on method and design for analysis.

5200. Seminar in the Sociology of Health (3)
P: SOCI 2110 or consent of instructor. Individual as health care consumer. Social factors affecting distribution of disease in population, socio-political structure of health care services in US, and health care system from perspective of various health care providers.

5300. Seminar in Juvenile Delinquency (3)
P: SOCI 2110 or consent of instructor. Juvenile delinquency as a socio-legal phenomenon. Special attention to theoretical and methodological issues in study of delinquency, consequences of and societal responses to delinquency, and prediction and intervention techniques.

5318. Social Aspects of Death and Dying (3)
P: SOCI 2110 or consent of instructor. Sociological perspective. Focus on organizational aspects of death and dying as process and status.

5335. Sociology of Marriage Problems (3)
For students planning to work in marriage counseling. P: SOCI 2110; consent of instructor. Advanced study of nature, causes, consequences, and treatment of marriage problems. Supervised individual experience in sociological and counseling techniques.

5400. Seminar in Gender Roles (3)
P for undergraduates: SOCI 2110 and consent of instructor; P for graduate students: SOCI 2110 or graduate standing or consent of instructor. Origins of gender roles and gender stratification. Personal, interpersonal, and social consequences of gender. Alternatives to traditional gender relations.

5500. Seminar in Population (3)
P for undergraduates: SOCI 2110 and consent of instructor; P for graduate students: SOCI 3222 or 3225 or 3235 or consent of instructor. Intensive study of substantive theory, methods of population analysis, and select problems of population dynamics, communities, and regions.

5600. Seminar in Aging (3)
P: SOCI 2110 or consent of instructor. Places experience of aging in a social context. Begins with examination of aging from demographic and entitlement perspectives and concludes with application of sociological theory to changing self definition accompanying age-related functional decline.

5700. Seminar in Social Interaction (3)
P for undergraduates: SOCI 2110 and consent of instructor; P for graduate students: SOCI 2110 or graduate standing. Empirical research on interaction in small groups and relations between group structure and personality. Emphasis on micro-sociological research methods and results.
5800. Seminar in the Family (3)
    P for undergraduates: SOCI 2110 and consent of instructor; P for graduate students:
    SOCI 2110 or graduate standing or consent of instructor. Sociological theories, methods,
    and applications involving family and social policies. Emphasis on comparative and
    social historical perspectives for understanding family in social context and change.

SOCI Banked Courses
    2125. The Sociology of Parenthood (3)
    3214. Introduction to Quantitative Sociology (0)
    3285. Social Thought Before Comte (3)
    3429. Sociology of Formal Organizations (3)
    4960. Practicum Seminar (3)
    5311. Contemporary Social Problems (3)
    5314. Sociological Concepts (3)

Agenda Item IV

College of Technology and Computer Science

Department of Technology Systems

http://www.ecu.edu/cs-acad/ugcat/TechSystems.cfm

College of Technology and Computer Science

Department of Technology Systems

Tijjani (TJ) Mohammed, Interim Chair, Suite 202 Science and Technology Building

Admission

Upon admission to the university, students may declare a major in one of the following degree
programs: design, industrial distribution and logistics, industrial engineering technology, or
information and computer technology. The design, industrial distribution and logistics, and
information and computer technology degree programs are accredited by the Association of
Technology, Management, and Applied Engineering. The minimum degree requirement is 126
s.h. of credit.

The bachelor of science in industrial technology, which is also accredited by the Association of
Technology, Management, and Applied Engineering, is designed specifically to meet a broad
range of needs of transfer students from community colleges. Students accepted to ECU may
declare an intent to enroll in the bachelor of science in industrial technology program, but must apply for admission to a specific concentration. Students not yet accepted into this program will not be allowed to enroll in concentration courses. Acceptance into the program may require additional qualifications such as industry certifications and additional courses depending on the chosen concentration, the earned associate degree, and the student’s background. All students pursuing a bachelor of science in industrial technology through distance education (online) are required to complete ITEC 3000 in their initial semester of enrollment at East Carolina University.

Admission to the online BS in industrial technology program requires ITEC 3000 with a minimum grade of C. Those ECU students intending to transfer to a technology systems degree program from other campus programs must have at least a 2.0 GPA.

**BS in Design**

*Robert A. Chin, Coordinator, 207 Science and Technology Building*

The design program is accredited by the Association of Technology, Management, and Applied Engineering. Minimum degree requirement is 126 s.h. credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see [Liberal Arts Foundations Curriculum](#) including those listed below - 42 s.h.

   All concentrations:
   - COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   - ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)
   - MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
   - PHIL 2274. Business Ethics (3) (WI*) (F,S,SS) (FC:HU) or PHIL 2275. Professional Ethics (3) (WI*) (F,S,SS) (FC:HU)
   - PHYS 1250. General Physics (3) (F,S,SS) (FC:SC) (P PHYS 1250)
   - PHYS 1251. General Physics Laboratory (1) (F,S,SS) (FC:SC) (C: PHYS 1250 or 2350)
   - PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   - PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

   Architectural Technology:
   - GEOL 1700. Environmental Geology (4) (F,S) (FC:SC)

   Mechanical Technology:
   - PHYS 1260. General Physics (3) (F,S,SS) (FC:SC) (P PHYS 1250)
   - PHYS 1261. General Physics Laboratory (1) (F,S,SS) (FC:SC) (C PHYS 1260 or 2260)

2. Core - 53 s.h.

   DESN 2034, 2035. Engineering Graphics I (3,0) (F,S) (P: ITEC 2000 or MIS 2223)
DESN 2036, 2037. Computer-Aided Design and Drafting (3,0) (F,S) (P: DESN 2034)
DESN 3032, 3033. Engineering Graphics II (3,0) (F,S) (P: DESN 2036; ITEC 2080;
PHYS 1250; C: ITEC 2090; or program coordinator approval)
DESN 4030, 4031. Descriptive Geometry (3,0) (S) (P: DESN 3032; MATH 1074)
FINA 2244. Legal Environment of Business (3) (F,S,SS)
IENG 2020, 2021. Materials and Processes Technology (3,0) (WI*) (F,S) (P/C: ITEC
2000 or MIS 2223)
ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S) or MIS
2223 Introduction to Computers (3) (F,S,SS)
ITEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S) (P/C: MATH 1074 or
1083 or 1085)
ITEC 2080, 2081. Thermal and Fluid Systems (3,0) (F,S) (P: IENG 2020)
ITEC 2090, 2091. Electromechanical Systems (3,0) (F,S) (P: ITEC 2054)
ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1066;
ITEC 2000 or 3000 or MIS 2223) or MATH 2283. Statistics for Business (3) (F,S,SS)
(FC:MA)
ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)
ITEC 3300. Technology Project Management (3) (F,S) (WI) (P: ENGL 1200; ITEC 2000
or MIS 2223)
ITEC 3800. Cost and Capital Project Analysis (3) (F,S) (P: MATH 1065; ITEC 2000 or
3000 or MIS 2223) or FINA 3004. Survey of Financial Management (3) (F,S)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior standing or consent of
instructor) or MGMT 3202. Fundamentals of Management (3) (F,S,SS)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)
MATH 1074. Applied Trigonometry (2) (F,S,SS) (P: MATH 1065)

3. Concentration area (Choose one) - 23 s.h.

Architectural Technology:
BIOL 1060. Environmental Biology (4) (F,S,SS) (FC:SC)
BIOL 1061. Environmental Biology Laboratory (1) (F,S) (FC:SC)
DESN 3030, 3031. Architectural Drafting (3,0) (F) (P: DESN 2036 or IDSN 2281; ITEC
2080; or program coordinator approval)
DESN 3036, 3037. Architectural Design and Drafting (3,0) (F) (P: DESN 3030, 3032; or
program coordinator approval)
DESN 3038, 3039. Sustainable Design (3,0) (S) (P:BIOL 1060, 1061; DESN 3030;
GEOL 1700; ITEC 2090, 3300; PSYC 3241; or program coordinator approval)
PLAN 3021. Introduction to Planning Techniques (3) (F)
PLAN 3051. Introduction to GIS in Planning (3) (F)
PLAN 4003. Urban Form and Design (3) (S)
Mechanical Technology:
CHEM 1020. General Descriptive Chemistry (4) (S) (FC:SC)
CHEM 1021. General Descriptive Chemistry Laboratory (1) (S) (FC:SC)
DESN 3230, 3231. Rapid Prototyping (3,0) (S) (P: DESN 3032; IENG 2076)
DESN 3234, 3235. Jig and Fixture Design (3,0) (F) (P: DESN 3032; ITEC 2090; IENG 2076)
DESN 3236, 3237. Geometric Dimensioning and Tolerancing (3,0) (F) (P: DESN 3032; MATH 1074; ITEC 3200 or MATH 2283)
IENG 2076, 2077. Introduction to Computer Numerical Control (CNC) (3,0) (F,S) (P: DESN 2034)
IENG 3020, 3021. Robotics in Computer Integrated Manufacturing (3,0) (S) (P: IENG 2076, ITEC 2090)
IENG 3300. Plant Layout and Materials Handling (3) (F) (P/C: ITEC 3290; P: IENG 2020)

4. Approved electives to complete requirements for graduation. - 8 s.h.

BS in Industrial Distribution and Logistics

Richard W. Monroe, Coordinator, 402 Science and Technology Building

The industrial distribution and logistics program is accredited by the Association of Technology, Management, and Applied Engineering.

Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below. 42 s.h.

COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)
MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

2. Core - 57 s.h.

IDIS 2771. Introduction to Distribution and Logistics (3)
IDIS 2830. ERP Systems for Distributors (3) (Formerly IDIS 3830)
IDIS 3700. Transportation Logistics (3) (Formerly IDIS 3800) (P: IDIS 2771)
IDIS 3790. Technical Presentations (3) (P: ITEC 2000 or MIS 2223)
IDIS 3795, 3796. Distributor Sales and Branch Management (3,0) (F) (P: IDIS 2771, 2830)
IDIS 3815. Supply Chain Logistics (3) (P: IDIS 2771, 2830)
IDIS 3820. Purchasing Logistics (3) (Formerly IDIS 3805) (P: IDIS 2830, 3815)
IDIS 3835. Security and Risk Analysis for Distributors (3) (P: IDIS 3815, 3700)
IDIS 3850, 3851. Warehousing and Materials Handling (3,0) (Formerly IDIS 3780, 3781) (P: IDIS 2771, 2830; ITEC 2000 or MIS 2223)
IDIS 4785. Strategic Pricing for Distributors (3) (Formerly IDIS 3825) (P: IDIS 3820)
IDIS 4790. Global Logistics (3) (Formerly IDIS 3785) (P: IDIS 3700, 3815)
IDIS 4800. Distribution and Logistics Capstone (3) (P: Junior standing; IDIS 3790; ITEC 3300; IDIS major)
IDIS 4802. Distribution Research (3) (P: IDIS 3815; senior standing)
ITEC 3290. Technical Writing (3) (WI) (F,S) (P: ENGL 1200)
ITEC 3292. Industrial Safety (3) (F,S) (P: Junior status)
ITEC 3300. Technology Project Management (3) (WI) (F,S) (P: ENGL 1200; ITEC 2000 or MIS 2223)
ITEC 3800. Cost and Capital Project Analysis (3) (S) (P: MATH 1065; ITEC 2000 or 3000 or MIS 2223)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior status; or consent of instructor)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)

3. Cognates - 12 s.h.

ACCT 2101. Survey of Financial and Management Accounting (3) (F,S) (P: MATH 1065)
FINA 2244. Legal Environment of Business (3) (F,S,SS)
MATH 2283. Statistics for Business (3) (F,S,SS) (P: MATH 1065 or 1066 or equivalent) or ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1065; ITEC 2000 or 3000 or MIS 2223)
ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S) or MIS 2223. Introduction to Computers (3) (F,S,SS)

4. Electives to complete requirements for graduation. - 15 s.h.

BS in Industrial Engineering Technology

Merwan B. Mehta, Coordinator, 244 Slay Hall

Minimum degree requirement is 126 s.h. of credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below. 42 s.h.

COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)
MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test) or MATH 1066. Applied Mathematics for Decision Making (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test or approval of dept chair)
PHYS 1250, 1260. General Physics (3,3) (F,S,SS) (FC:SC) (P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250)
PHYS 1251, 1261. General Physics Laboratory (1,1) (F,S,SS) (FC:SC) (C for 1251: PHYS 1250 or 2350; C for 1261: PHYS 1260 or 2260)
PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

2. Core - 69 s.h.

DESN 2034, 2035. Engineering Graphics I (3,0) (F,S) (P: ITEC 2000 or MIS 2223)
DESN 2036, 2037. Computer-Aided Design and Drafting (3,0) (F,S) (P: DESN 2034)
IENG 2020, 2021. Materials and Processes Technology (3,0) (WI) (F,S) (P/C: ITEC 2000 or MIS 2223)
IENG 2076, 2077. Introduction to Computer Numerical Control (CNC) (3,0) (F,S) (P: DESN 2034)
IENG 3020, 3021. Robotics in Computer Integrated Manufacturing (3,0) (S) (P: IENG 2076; ITEC 2090)
IENG 3300. Plant Layout and Materials Handling (3) (F) (P/C ITEC 3290; P: IENG 2020)
IENG 3600. Statics and Strength of Materials (3) (S) (P: IENG 2020, MATH 1074)
IENG 4020. Manufacturing System Planning (3) (F) (P: ITEC 3200, MATH 2119)
IENG 4023. Advanced Manufacturing Systems (3) (S) (P: IENG 3300)
IENG 4024, 4025. Electromechanical Systems Integration (3,0) (F) (P: DESN 2036; IENG 3020)
IENG 4200. Work Methods and Ergonomic Analysis (3) (S) (P: ITEC 3200 or MATH 2283)
IENG 4900. Capstone (3) (S) (P: Senior Standing)
ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S)
ITEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S) (P/C: MATH 1074 or 1083 or 1085)
ITEC 2080, 2081. Thermal and Fluid Systems (3,0) (F,S) (P: IENG 2020)
ITEC 2090, 2091. Electromechanical Systems (3,0) (F,S) (P: ITEC 2054)
ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1066; ITEC 2000 or 3000 or MIS 2223)
ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)
ITEC 3300. Technology Project Management (3) (F,S) (WI) (P: ENGL 1200; ITEC 2000 or MIS 2223)
ITEC 3800. Cost and Capital Project Analysis (3) (F,S) (P: MATH 1065; ITEC 2000 or 3000 or MIS 2223)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior standing or approval of instructor)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)

3. Cognates - 6 s.h.
   CHEM 1020 General Descriptive Chemistry (4) (F,S)
   MATH 1074. Applied Trigonometry (2) (F,S,SS) (P: MATH 1065)

4. Electives to complete requirements for graduation. - 9 s.h.

BS in Industrial Technology

David L. Batts, Coordinator, 230 Slay Building

The industrial technology program is accredited by the Association of Technology, Management, and Applied Engineering.

Student must have an associate of applied science degree from an approved technical program. Minimum degree requirement is 126 s.h. of credit as follows. Students must complete at ECU a minimum of 42 s.h. credit of upper division core and concentration courses. Industrial technology courses completed at ECU and transfer courses must total at least 66 s.h. All students pursuing a bachelor of science in industrial technology through distance education (online) are required to complete ITEC 3000 in their initial semester of enrollment at East Carolina University. For distance education (online) students only, ITEC 3000 will fulfill 3 s.h. of the required 27 s.h. in their chosen concentration area. ITEC 3100, 4100 or any course that does not meet as a class may not be used as upper division core or concentration courses.

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below. 42 s.h.
   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test) or MATH 1066. Applied Mathematics for Decision Making (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test or approval of dept chair)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

2. Lower Division Core - 24 s.h.
Transfer technical courses up to 24 s.h. or approved technical courses.

3. Upper Division Core - 15 s.h.

ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1066; ITEC 2000 or 3000 or MIS 2223)
ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
ITEC 3300. Technology Project Management (3) (WI) (F,S) (P: ENGL 1200; ITEC 2000 or MIS 2223)
ITEC 3800. Cost and Capital Project Analysis (3) (F,S) (P: MATH 1065; ITEC 2000 or 3000 or MIS 2223)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior standing or approval of instructor)

4. Concentrations (choose one) - 27 s.h.

Architectural Technology
DESN 3030, 3031. Architectural Drafting (3,0) (F) (P: DESN 2036 or IDSN 2281; ITEC 2080; or program coordinator approval)
DESN 3032, 3033. Engineering Graphics II (3,0) (F,S) (P: DESN 2036: ITEC 2080; PHYS 1250; C: ITEC 2090; or program coordinator approval)
DESN 3036, 3037. Architectural Design and Drafting (3,0) (F) (P: DESN 3030, 3032; or program coordinator approval)
DESN 3038, 3039. Sustainable Design (3,0) (S) (P: BIOL 1060, 1061; DESN 3030; GEOL 1700; ITEC 2090, 3300; PSYC 3241; or program coordinator approval)
PLAN 3021. Introduction to Planning Techniques (3) (F)
PLAN 3051. Introduction to GIS in Planning (3) (F)
PLAN 4003. Urban Form and Design (3) (S)
Approved technical electives (6 s.h.)

Bioprocess Manufacturing
ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)
ITEC 4150. Microbiology for Industrial Processing (3) (S EY) (P: Admitted to bioprocess manufacturing concentration within BS industrial technology degree)
ITEC 4250. Engineering for Food Safety and Sanitation (3) (F OY) (P: Admitted to bioprocess manufacturing concentration within BS industrial technology degree)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)
ITEC 4350. Separation Techniques for Industrial Processing (3) (S OY) (P: Admitted to bioprocess manufacturing concentration within BS industrial technology degree)
ITEC 4450. Waste Treatment Techniques for Industrial Processing (3) (S OY) (P: Admitted to bioprocess manufacturing concentration within BS industrial technology degree)
ITEC 4550. Quality in Regulatory Environments (3) (F, EY) (P: Admitted to bioprocess manufacturing concentration within BS industrial technology degree)
Approved technical electives (6 s.h.)

Distribution and Logistics
IDIS 2771. Introduction to Distribution and Logistics (3)
IDIS 2830. ERP Systems for Distributors (3) (Formerly IDIS 3830)
IDIS 3700. Transportation Logistics (3) (Formerly IDIS 3800) (P: IDIS 2771)
IDIS 3815. Supply Chain Logistics (3) (P: IDIS 2771, 2830)
IDIS 3820. Purchasing Logistics (3) (Formerly IDIS 3805) (P: IDIS 2830, 3815)
IDIS 3835. Security and Risk Analysis for Distributors (3) (P: IDIS 3700)
IDIS 4785. Strategic Pricing for Distributors (3) (Formerly IDIS 3825) (P: IDIS 3820)
IDIS 4790. Global Logistics (3) (Formerly IDIS 3785) (P: IDIS 3700, 3815)
Approved technical electives (3 s.h.)
Health Information Technologies
HIMA 3000. Medical Terminology for Health Professionals (3) (F, S, SS)
HIMA 3120. Health Care Delivery Systems (3) (F) (P: HSMA 2000; P/C: HSMA 3030 or consent of instructor)
HIMA 4030. Quality Management in Health Care (3) (S) (P: HIMA 3113, 3120; or consent of instructor)
HSMA 2000. Professional Roles and Environments in Health Care (3) (SL*) (F,S,SS)
HSMA 3020. Health Care Payment Systems (3) (S) (P: HSMA 2000; P/C: HIMA 3120; HSMA 3035; HSMA 3030 or consent of instructor)
HSMA 3025. Professional Ethical Codes and Law in Health Care (3) (F) (P: HSMA 2000; P/C: HSMA 3030; or consent of instructor)
HSMA 3035. Interpersonal Team Skills for Health Care Supervisors and Practitioners (3) (S) (P: HSMA 2000; P/C: HSMA 3030 or consent of instructor)
HSMA 4010. Health Information Management (3) (F) (P: HIMA 3120; HSMA 3035)
Approved technical electives (3 s.h.)
Industrial Supervision
IDIS 2771. Introduction to Distribution and Logistics (3) (F,S)
IDIS 3790. Technical Presentations for Industry (3) (F,S) (P: ITEC 2000 or MIS 2223)
IDIS 3815. Supply Chain Logistics (3) (F,S) (P: IDIS 2771)
IENG 3300. Plant Layout and Materials Handling (3) (F) (P: IENG 2020)
IENG 4023. Advanced Manufacturing Systems (3) (S) (P: IENG 3300)
ITEC 3292. Industrial Safety (3) (S) (P: Junior standing)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)
Approved technical electives (6 s.h.)
Information and Computer Technology
Choose 27 hours from below:
ICTN 2530, 2531. Network Environment II (3,0) (F,S) (P: ICTN 1500)
ICTN 2900, 2901. Fundamental Network Security (3,0) (F) (P: ICTN 2150)
ICTN 3250, 3251. Internetwork Routing Technology (3,0) (F) (P: Current CCNA certification)
ICTN 3540, 3541. Network Environment III (3,0) (F) (P: ICTN 2510, 2530)
ICTN 3900, 3901. Web Services Management (3,0) (F) (P: ICTN 2530)
ICTN 4010, 4011. User Application Management and Emerging Technologies (3,0) (F) (P: ICTN 2510, 2530)
ICTN 4040. Enterprise Information Security (3) (S) (P: ICTN 2530, 2900)
ICTN 4064. Regulations and Policies (3) (S) (P: ICTN 2150; P/C: FINA 2244)
ICTN 4150, 4151. Switching Network Technology (3,0) (F) (P: Current CCNA certification)
ICTN 4200, 4201. Intrusion Detection Technologies (3,0) (F) (P: ICTN 2530, 2900)
ICTN 4250, 4251. Enterprise Network Security Technology (3,0) (S) (P: Current CCNA certification)
ICTN 4310. Digital Forensics (3) (P: ICTN 2530, 2900)
ICTN 4402, 4404, 4406, 4408. Special Topics (1,2,3,4) (P: Consent of instructor)
ICTN 4590, 4591. Network Maintenance and Troubleshooting (3,0) (S) (P: Current CCNA certification; ICTN 3250, 4150)
ICTN 4600, 4601. Enterprise Information Technology Management (3,0) (S) (P: ICTN 2154, 2530)
ICTN 4700, 4701. Virtualization Technologies (3,0) (P: ICTN 2530)
ICTN 4750. Enterprise Data Storage Technologies (3) (P: ICTN 2530)
ICTN 4800, 4801. Information Assurance Technologies (3,0) (F) (P: ICTN 2530, 2900)
Manufacturing Systems
IENG 3300. Plant Layout and Materials Handling (3) (F) (P/C: ITEC 3290, P: IENG 2020)
IENG 4020. Manufacturing System Planning (3) (F) (P: ITEC 3200)
IENG 4023. Advanced Manufacturing Systems (3) (S) (P: IENG 3300)
IENG 4200. Work Methods and Ergonomic Analysis (3) (S) (P: ITEC 3200 or MATH 2283)
ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)
ITEC 4300. Quality Assurance Concepts (3) (F,S) (P: ITEC 3200 or MATH 2283)
Approved technical electives (9 s.h.)
Mechanical Technology
DESN 3032, 3033. Engineering Graphics II (3,0) (F,S) (P: DESN 2036; ITEC 2080; PHYS 1250; C: ITEC 2090; or program coordinator approval)
DESN 3230, 3231. Rapid Prototyping (3,0) (S) (P: DESN 3032; IENG 2076)
DESN 3234, 3235. Jig and Fixture Design (3,0) (F) (P: DESN 3032; ITEC 2090; IENG 2076)
DESN 3236, 3237. Geometric Dimensioning and Tolerancing (3,0) (F) (P: DESN 3032; MATH 1074; ITEC 3200 or MATH 2283)
IENG 2076, 2077. Introduction to Computer Numerical Control (CNC) (3,0) (F) (P: DESN 2034)
IENG 3020, 3021. Robotics in Computer Integrated Manufacturing (3,0) (S) (P: IENG 2076; ITEC 2090)
IENG 3300. Plant Layout and Materials Handling (3) (F) (P/C: ITEC 3290; P: IENG 2020)
Approved technical electives (6 s.h.)

5. Cognates - 5 s.h.

FINA 2244. Legal Environment of Business (3) (F,S,SS)
MATH 1074. Applied Trigonometry (2) (F,S,SS) (P: MATH 1065)

6. Approved electives to complete requirements for graduation.
BS in Information and Computer Technology

Philip J. Lunsford, Coordinator, C123 Science and Technology Building

The information and computer technology program is accredited by the Association of Technology, Management, and Applied Engineering. Credit toward an information and computer technology major will not be given for any ICTN course with a grade less than C. Minimum degree requirement is 126 s.h. credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below.42 s.h.

   COMM 2410. Public Speaking (3) (F,S,SS) (FC:FA) or COMM 2420. Business and Professional Communication (3) (F,S,SS) (FC:FA)
   ECON 2113. Principles of Microeconomics (3) (F,S,SS) (FC:SO)
   MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test) or MATH 1066. Applied Mathematics for Decision Making (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test or approval of dept chair)
   PHYS 1250, 1260. General Physics (3,3) (F,S,SS) (FC:SC) (P for 1250: MATH 1065 or 1066; P for 1260: PHYS 1250)
   PHYS 1251, 1261. General Physics Laboratory (1,1) (F,S,SS) (FC:SC) (C for 1251: PHYS 1250 or 2350; C for 1261: PHYS 1260 or 2260)
   PSYC 1000. Introductory Psychology (3) (F,S,SS) (FC:SO)
   PSYC 3241. Personnel and Industrial Psychology (3) (F,S,SS) (FC:SO) (P: PSYC 1000 or 1060)

2. Lower Division Core - 24 s.h.

   ICTN 1500, 1501. PC Hardware (3,0) (F,S)
   ICTN 2150, 2151. Network Fundamentals (3,0) (F,S)
   ICTN 2154, 2155. Digital Communication Systems (3,0) (F,S) (P: ICTN 2150)
   ICTN 2158, 2159. Computer Network Technology (3,0) (F,S) (P: ICTN 2154)
   ICTN 2510, 2511. Network Environment I (3,0) (F) (P: ICTN 1500)
   ICTN 2530, 2531. Network Environment II (3,0) (S) (P: ICTN 1500)
   ICTN 2732. Scripting for Information Technology (3) (S) (P: ITEC 2000; P/C: ICTN 2530)
   ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S) or ITEC 3000. Internet Tools Technology (3) (F,S) (P: MIS 2223 or ITEC 2000 or equivalent experience) or equivalent.

3. Upper Division Core - 24 s.h.

   ICTN 2900, 2901. Fundamental Network Security (3,0) (F) (P: ICTN 2150)
   ICTN 3540, 3541. Network Environment III (3,0) (F) (P: ICTN 2530)
ICTN 4000. Network Internship (3) (F,S,SS) (P: Junior standing and ICTN major)
ICTN 4020. Senior Information and Computer Technology Capstone Design Project I (1) (WI) (F) (P: Senior standing,
ICTN 4022. Senior Information and Computer Technology Capstone Design Project II (2) (WI) (S) (P: ICTN 4020)
ICTN 4040. Enterprise Information Security (3) (S) (P: ICTN 2530, 2900)
IDIS 3790. Technical Presentations (3) (P: ITEC 2000 or MIS 2223)
ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
ITEC 3300. Technology Project Management (3) (WI) (F,S) (P: ENGL 1200; ITEC 2000 or MIS 2223)

4. Concentration area (Choose one.). 12 s.h.

Computer Networking:
ICTN 3250, 3251. Internetwork Routing Technology (3,0) (F) (P: Current CCNA certification)
ICTN 4150, 4151. Switching Network Technology (3,0) (F) (P: Current CCNA certification)
ICTN 4250, 4251. Enterprise Network Security Technology (3,0) (S) (P: Current CCNA certification)
ICTN 4590, 4591. Network Maintenance and Troubleshooting (3,0) (WI) (S) (P: Current CCNA certification)

Information Security:
ICTN 4064. Regulations and Policies (3) (S) (P: ICTN 2150; P/C: FINA 2244)
ICTN 4200, 4201. Intrusion Detection Technologies (3,0) (F) (P: ICTN 2530, 2900)
ICTN 4600, 4601. Enterprise Information Technology Management (3,0) (S) (P: ICTN 2154, 2530)
ICTN 4800, 4801. Information Assurance Technologies (3,0) (F) (P: ICTN 2530, 2900)

Information Technology:
ICTN 3900, 3901. Web Services Management (3,0) (F) (P: ICTN 2530)
ICTN 4010, 4011. User Application Management and Emerging Technologies (3,0) (F) (P: ICTN 2510, 2530)
ICTN 4064. Regulations and Policies (3) (S) (P: ICTN 2150; P/C: FINA 2244)
ICTN 4600, 4601. Enterprise Information Technology Management (3,0) (S) (P: ICTN 2154, 2530)

5. Cognates - 12 s.h.

FINA 2244. Legal Environment of Business (3) (F,S,SS)
ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1066; ITEC 2000 or 3000 or MIS 2223) or MATH 2283. Statistics for Business (3) (F,S,SS) (P: MATH 1065 or 1066 or equivalent)
ITEC 3800. Cost and Capital Project Analysis (3) (F,S) (P: MATH 1065; ITEC 2000 or 3000 or MIS 2223) or ACCT 2101 Survey of Financial and Managerial Accounting (3) (F,S) (P: MATH 1065 or 1066) or ACCT 2401. Financial Accounting (3) (F,S,SS) (P: MATH 1065 or 1066 or 2119 or 2121 or 2171)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior standing or approval of instructor) or MGMT 3202. Fundamentals of Management (3) (F,S,SS) (P: ECON 1000 or 2113)

6. Approved electives to complete requirements for graduation.

**Architectural Design Technology Minor**

The architectural design technology design minor requires a minimum of 30 s.h. of credit:

- DESN 2034, 2035. Engineering Graphics I (3,0) (F,S) (P: ITEC 2000 or MIS 2223)
- DESN 2036, 2037. Computer-Aided Design and Drafting (3,0) (F,S) (P: DESN 2034)
- DESN 3030, 3031. Architectural Drafting (3,0) (F) (P: DESN 2036 or IDSN 2281; ITEC 2080; or program coordinator approval)
- DESN 3032, 3033. Engineering Graphics II (3,0) (F,S) (P: DESN 2036; ITEC 2080; PHYS 1250; C: ITEC 2090; or program coordinator approval)
- DESN 3036, 3037. Architectural Design and Drafting (3,0) (F) (P: DESN 3030, 3032; or program coordinator approval)
- DESN 3038, 3039. Sustainable Design (3,0) (S) (P: BIOL 1060, 1061; DESN 3030; GEOL 1700; ITEC 2090, 3300; PSYC 3241; or program coordinator approval)
- ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S) or MIS 2223. Introduction to Computers (3) (F,S,SS)

And 9 s.h. from the following:

- PLAN 1900. Planning for the Human Environment (3) (F,S,SS)
- PLAN 3021. Introduction to Planning Techniques (3) (F)
- PLAN 3051. Introduction to GIS in Planning (3) (F) (P: PLAN 3410 or consent of instructor)
- PLAN 4003. Urban Form and Design (3) (S)
- PLAN 4021. Advanced GIS Applications in Planning (3) (S) (P: PLAN 3051 or GEOG 2410 or consent of instructor)
- PLAN 4046. Planning and Design Studio (3) (F,S)
- PLAN 5985. Historic Preservation Planning (3)

**Industrial Technology Management Minor**

The industrial technology management minor requires **24 s.h.** of credit as follows:

- FINA 2244. Legal Environment of Business (3) (F,S,SS)
- IDIS 2771. Introduction to Distribution and Logistics (3)
- ITEC 3200. Introduction to Statistical Process Control (3) (F,S) (P: MATH 1065 or 1066; ITEC 2000 or 3000 or MIS 2223)
- ITEC 3290. Technical Writing (3) (WI) (F,S,SS) (P: ENGL 1200)
- ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)
ITEC 3300. Technology Project Management (3) (WI) (F,S) (P: ENGL 1200; ITEC 2000 or MIS 2223)
ITEC 3800. Cost and Capital Project Analysis (3) (F,S) (P: MATH 1065; ITEC 2000 or 3000 or MIS 2223)
ITEC 4293. Industrial Supervision (3) (WI) (F,S) (P: Senior standing or approval of instructor)

Information and Computer Technology Minor

The information and computer technology minor requires **24 s.h.** of credit.
- ICTN 1500, 1501. PC Hardware (3,0) (F,S)
- ICTN 2150, 2151. Network Fundamentals (3,0) (F,S)
- ICTN 2154, 2155. Digital Communication Systems (3,0) (F,S) (P: ICTN 2150)
- ICTN 2158, 2159. Computer Networking Technology (3,0) (F,S) (P: ICTN 2154)
- ICTN 2510, 2511. Network Environment I (3,0) (F) (P: ICTN 1500)
- ICTN 2530, 2531. Network Environment II (3,0) (S) (P: ICTN 1500)
- ICTN 2900, 2901. Fundamental Network Security (3,0) (F) (P: ICTN 2150)
- ICTN 4040. Enterprise Information Security (3) (S) (P: ICTN 2530, 2900)

Mechanical Design Technology Minor

The mechanical design technology minor requires **30 s.h.** of credit:
- DESN 2034, 2035. Engineering Graphics I (3,0) (F,S) (P: ITEC 2000 or MIS 2223)
- DESN 2036, 2037. Computer-Aided Design and Drafting (3,0) (F,S) (P: DESN 2034)
- DESN 3032, 3033. Engineering Graphics II (3,0) (F,S) (P: DESN 2036; ITEC 2080; PHYS 1250; C: ITEC 2090; or program coordinator approval)
- DESN 3230, 3231. Rapid Prototyping (3,0) (S) (P: DESN 3032; IENG 2076)
- DESN 3234, 3235. Jig and Fixture Design (3,0) (F) (P: DESN 3032; ITEC 2090; IENG 2076)
- IENG 2076, 2077. Introduction to Computer Numerical Control (CNC) (3,0) (F) (P: DESN 2034)
- ITEC 2000. Industrial Technology Applications of Computer Systems (3) (F,S) or MIS 2223. Introduction to Computers (3) (F,S,SS)
- ITEC 2054, 2055. Electricity/Electronics Fundamentals (3,0) (F,S) (P/C: MATH 1074 or 1083 or 1085)
- ITEC 2090, 2091. Electromechanical Systems (3,0) (F,S) (P: ITEC 2054)
- MATH 1065. College Algebra (3) (F,S,SS) (FC:MA) (P: Appropriate score on mathematics placement test)
**Occupational Safety and Health Minor**

Minimum requirement for environmental health minor is **24 s.h.** of credit as follows:

- EHST 3700. Industrial Hygiene (3) (S) (P: 8 s.h. of general science lab courses or consent of dept chair)
- EHST 3701. Industrial Hygiene Lab (1) (S) (P: Consent of instructor; C: EHST 3700)
- EHST 3910. General Industry Safety (3) (F)
- EHST 3926. Construction Safety (3) (F,S)
- EHST 4200. Environmental Health Management and Law (3) (F)
- ITEC 3292. Industrial Safety (3) (F,S) (P: Junior standing)

Choose 8 s.h. of general science lab courses

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**Agenda Item V**

**College of Technology and Computer Science**

**Department of Construction Management**

**Department of Construction Management**

*Syed Ahmed, Chair, 346 Rawl Building*

**Admission**

Admission requirements are specified based on the entry status of potential students: freshman, transfer students, technical degree transfer students, ECU transfer students, or second degree students. Progression through the major is two-tiered: lower division requirements and upper division requirements. Potential majors should refer to the departmental website for full descriptions of each entry status category and the associated requirements for admission. Admission to the university does not guarantee admission to the construction management degree program.

Students are admitted to the lower division and must apply for admission to the upper division. The complete listing of admission requirements can be found on the departmental website or at the College of Technology and Computer Science Advising Center. Once admitted, successful progression through the major requires a minimum cumulative grade point average of 2.0. Students falling below a 2.0 cumulative grade point average will not be allowed to take construction management classes and will be placed on departmental probation for one semester. Summer sessions are not part of the departmental probation period. Probation status will be allowed for a maximum of one semester; after that time students with a cumulative grade point average below 2.0 will be dropped from the department.
CMGT majors and minors are required to achieve a minimum grade of C in the following courses in order to progress to subsequent courses: CMGT 2210, 2660; CMGT 2558 or 2664; CMGT 3664, 4660, 4662 CMGT 2210, 2400, 2600, 3500, 3950, 4000, 4100, 4200, 4300, 4310 and 4400. Students earning less than a C in any of these courses must repeat the course before any subsequent CMGT course may be taken. Students required to repeat any CMGT course will not be permitted to register for that course in the semester or summer school immediately following unless a seat is available on the last day of regular registration (add only day). Should a student be found in violation of this policy, he/she will be administratively dropped (no matter what point in the semester) from that CMGT course.

The Department of Construction Management requires students to have a laptop computer in order to accomplish academic work. The ACE Student Computer Support Center at www.ecu.edu/ace lists the current computer specifications meeting the department’s requirements.

BS in Construction Management

The construction management program is accredited by the American Council for Construction Education. Minimum degree requirement is 126 s.h. credit as follows:

1. Foundations curriculum requirements (For information about courses that carry foundations curriculum credit see Liberal Arts Foundations Curriculum) including those listed below - 42 s.h.

   COMM 2410. Public Speaking (3) (FC:FA) or COMM 2420. Business and Professional Communication (3) (FC:FA) or COMM 2020. Fundamentals of Speech Communication (3) (F,S) (FC:FA)
   ECON 2113. Principles of Microeconomics (3) (FC:SO)
   ECON 2133. Principles of Macroeconomics (3) (FC:SO) (P: ECON 2113)
   GEOL 1500. Dynamic Earth (3) (FC:SC)
   GEOL 1501. Dynamic Earth Laboratory (1) (FC:SC) (C: GEOL 1500)
   MATH 1065. College Algebra (3) (FC:MA) (P: Appropriate score on mathematics placement test) or MATH 1066. Applied Mathematics for Decision Making (3) (FC:MA) (P: Appropriate score on mathematics placement test or approval of dept chair)
   PHYS 1250. General Physics (3) (FC:SC) (P: MATH 1065 or 1066)
   PHYS 1251. General Physics Laboratory (1) (FC:SC) (C: PHYS 1250 or 2350)

2. Core - 46 51 s.h.

   Lower Division Core Courses:
   CMGT 2200. Introduction to the Construction Industry Overview (3 2) (F)
   CMGT 2210, 2211. Construction and Civil Materials (3,0) (P: Minimum overall GPA of 2.0; majors and minors only; P/C: MATH 1065 or 1066)
   CMGT 2660, 2661, 2400, 2401. Structural Building Systems, Materials and Codes (3,0) Building Systems and Codes (4,0) (F,S) (Formerly CMGT 2660, 2661) (P: Minimum
grade of C in CMGT 2210; minimum overall GPA of 2.0; minimum grade of C in CMGT 2210.
CMGT 2800. Foundations of Construction (3) (F,S,SS) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2210; computer-related elective)
CMGT 2600. Construction Documents and Analysis (3) (Formerly CMGT 3100) (P: Minimum grade of C in CMGT 2400; minimum overall GPA of 2.0)

Upper Division Core Courses:
CMGT 2664, 2665. Interior and Exterior Finishes and Systems (3,0) (F,S,SS) (P: Minimum overall GPA of 2.0; computer-related elective)
CMGT 3100. Construction Plans and Analysis (3) (P: Minimum overall GPA of 2.0; CMGT 2800; P/C: CMGT 2558 or 2664)
CMGT 3010. Construction Modeling and Information Technology (3) (Formerly CMGT 2800) (P: Minimum grade of C in CMGT 2600; minimum overall GPA of 2.0; ITEC 2000 or MIS 2223 or equivalent computer-related elective)
CMGT 3660 3400. Structural Analysis (3) (Formerly CMGT 3660) (P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; Minimum grade of C in CMGT 2558 or 2664; MATH 1074 or 1075 or equivalent; PHYS 1250, 1251)
CMGT 3664 3500. Construction Contracts and Specifications (3) (Formerly CMGT 3664) (P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; Minimum grade of C in CMGT 2558 or 2664; P/C: CMGT 3100 3010)
CMGT 3662, 3663 3600. Mechanical and Electrical Construction (3,4) (Formerly CMGT 3662, 3663) (P: Minimum overall GPA of 2.0; P/C: CMGT 3664 3500)
CMGT 3666, 3667 3700, 3701. Construction Surveying (3,0) (Formerly CMGT 3666, 3667) (P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; CMGT 3100; MATH 1074 or 1075 or equivalent)
CMGT 3766, 3767 3800, 3801. Soils and Foundations (3,0) (Formerly CMGT 3766, 3767) (P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; Minimum grade of C in CMGT 2558 or 2664; GEOL 1500, 1501; MATH 1074 or 1075 or equivalent; PHYS 1250, 1251)
CMGT 3726-3900. Construction Project Safety Management (3) (Formerly CMGT 3726) (P: Minimum grade of C in 3500; Minimum overall GPA of 2.0; Minimum grade of C in 3664)
CMGT 4660 4000. Construction Estimating (3) (Formerly CMGT 4660) (P: Minimum grade of C in CMGT 3500; Minimum overall GPA of 2.0; Minimum grade of C in CMGT 3664; P/C: CMGT 3660 3400)
CMGT 4662 4100. Construction Planning and Scheduling (3) (Formerly CMGT 4662) (P: Minimum overall GPA of 2.0; Minimum grade of C in CMGT 4660 P/C: CMGT 4000)
CMGT 4200. Construction Cost Control (3) (P: Minimum grade of C in CMGT 4100; minimum overall GPA of 2.0)
CMGT 4600, 4601 4300. Managing Construction Quality (3,0) Construction Quality and Human Resource Management (4) (WI) (Formerly CMGT 4600, 4601) (P: Minimum grade of C in CMGT 4200; Minimum overall GPA of 2.0; CMGT 3662; ITEC 3290; P/C: CMGT 4662)
CMGT 4664 4400. Construction Management Capstone Construction Capstone (3) (Formerly CMGT 4664) (F.S) (P: Minimum grade of C in CMGT 4300; Minimum overall GPA of 2.0; CMGT 4600; minimum grade of C in CMGT 4662) CMGT 4666. Equipment Management (3) (P: Minimum overall GPA of 2.0; CMGT 4660, 3766)
CMGT 4668. Human Side of Project Management (3) (P: Minimum overall GPA of 2.0; MGMT 3202; minimum earned credit hours equal to 110 s.h.)
CMGT 4699 4500. Construction Work Experience and Professional Development (1) (Formerly CMGT 4699) (P: Minimum overall GPA of 2.0: completed senior summary; applied to graduate; P/C: CMGT 4664 4400; graduating semester)

3. Concentration Options - 9 s.h.

General Construction
- All lower and upper level CMGT courses
- Any three (3) CMGT elective courses.

Residential Construction
- All lower and upper level CMGT courses
- CMGT 3150. Residential Construction Techniques (3) (Formerly CMGT 2558) (P: Minimum grade of C in CMGT 2400; minimum overall GPA of 2.0)
- CMGT 3950. Residential Development (3) (Formerly CMGT 3558) (P: Minimum grade of C in CMGT 3150; minimum overall GPA of 2.0)
- CMGT 4320. Construction Sustainability (3) (P: Minimum overall GPA of 2.0; senior standing)

Infrastructure Construction
- All lower and upper level CMGT courses
- CMGT 3710, 3711. Infrastructure and Highway Materials (3,0) (P: Minimum grade of C in CMGT 3500; minimum overall GPA of 2.0; P/C: CMGT 3800)
- CMGT 4310. Infrastructure Construction Techniques (3) (P: Minimum overall GPA of 2.0; P/C CMGT 4200)
- CMGT 4380. Equipment Management (3) (Formerly CMGT 4666) (P: Minimum overall GPA of 2.0; CMGT 3400, 3800)

Concentration Options
- Residential Construction Management (RCM)
  - CMGT 2558 Residential Construction Techniques (3) (P: CMGT 2210; minimum overall GPA of 2.0; minimum grade of C in CMGT 2210)
  - CMGT 3558 Residential Development (3) (P: CMGT 2558 minimum overall GPA of 2.0; minimum grade of C in CMGT 2558)
  - CMGT 4558. Residential Capstone (3) (P: CMGT 3558; minimum overall GPA of 2.0; minimum grade of C in CMGT 3558, 3662, 3664, 4660, 4662)
- Commercial Construction Management (CCM)
CMGT 2664, 2665. Interior and Exterior Finishes and Systems (3,0) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2660)
CMGT 4664. Commercial Capstone (3) (P: Minimum overall GPA of 2.0; CMGT 4600; minimum grade of C in CMGT 4662)

4. Cognates - 24 s.h.

   ACCT 2101. Survey of Financial and Managerial Accounting: (3), (P: MATH 1065)
   EHST 3060, 3061. Environmental Issues in Construction (4,0) (P: GEOL 1500, 1501)
   FINA 2244. Legal Environment of Business (3)
   ITEC 3290. Technical Writing (3) (WI) (P: ENGL 1200)
   MATH 1074. Applied Trigonometry (2) (P: MATH 1065) or transfer credit for MATH 1075 or equivalent.
   MATH 2283. Statistics for Business (3) (P: MATH 1065 or 1066 or equivalent)
   MGMT 3202. Fundamentals of Management (3) (P: ECON 2113)
   MKTG 3832. Marketing Management (3) (P: ECON 2113)
   Choose 3 s.h. computer-related elective from:
   ITEC 2000. Industrial Technology Applications of Computer Systems (3)
   MIS 2223. Introduction to Computers (3)

5. Electives to complete requirements for graduation

Construction Management Transfer Option

The construction management option requires 43 s.h. of credit.

Applicable to technical degree transfer students only. Students who hold an associate degree of applied science from an approved technical program must transfer courses and take courses at ECU that meet the competencies of the construction management core listed above. Students may be admitted directly to the upper division upon completion of MATH 1065 and PHYS 1250, 1251 (or equivalent). Students must complete at ECU a minimum of 28 s.h. credit, 19 s.h. from 3000-level or above (must include CMGT 4600, 4660, 4662, 4668, 4699 4000, 4100, 4200, 4300, 4400, and 4500) and 6 s.h. from 2000-level or above. Students must choose one concentration. Additional courses may be necessary to meet required prerequisites. Construction management courses completed at ECU and technical transfer courses must total a minimum of 43 s.h. including the course credits from a concentration area. Courses needed to meet requirements must meet as scheduled classes.

Construction Management Minor

The construction management minor requires 27 s.h. of credit as follows:

1. Required courses. - 27 s.h.
CMGT 2210, 2211. Construction and Civil Materials (3.0) (P: Minimum overall GPA of 2.0; majors and minors only; P/C: MATH 1065 or 1066)
CMGT 2660, 2661. Structural Systems, Materials and Codes (3.0) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2210)
CMGT 2664, 2665. Interior and Exterior Finishes and Systems (3.0) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2660)
CMGT 2800. Foundations of Construction (3) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2210; computer-related elective)
CMGT 3100. Construction Plans and Analysis (3) (P: Minimum overall GPA of 2.0; CMGT 2800; P/C: CMGT 2558 or 2664)
CMGT 3664. Construction Contracts and Specifications (3) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2558 or 2664; P/C: CMGT 3100)
CMGT 3726. Construction Project Safety Management (3) (P: Minimum overall GPA of 2.0; minimum grade of C in 3664)
CMGT 4660. Construction Estimating (3) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 3664; P/C: CMGT 3010* [*For students seeking CMGT minor P/C: CMGT 3660 will be waived])
CMGT 4662. Construction Planning and Scheduling (3) (P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 4660

CMGT 2200. Construction Industry Overview (2)
CMGT 2210, 2211. Construction and Civil Materials (3.0) (P: Minimum overall GPA of 2.0; majors and minors only; P/C: MATH 1065 or 1066)
CMGT 2400, 2401. Building Systems and Codes (4.0) (Formerly CMGT 2660, 2661) (P: Minimum grade of C in CMGT 2210; minimum overall GPA of 2.0)
CMGT 2600. Construction Documents and Analysis (3) (Formerly CMGT 3100) (P: Minimum grade of C in CMGT 2400; minimum overall GPA of 2.0)
CMGT 3010. Construction Modeling and Information Technology (3) (Formerly CMGT 2800) (P: Minimum grade of C in CMGT 2600; minimum overall GPA of 2.0; ITEC 2000 or MIS 2223 or equivalent computer-related elective)
CMGT 3500. Construction Contracts and Specifications (3) (Formerly CMGT 3664) (P: Minimum grade of C in CMGT 2600; minimum overall GPA of 2.0; P/C: CMGT 3010)
CMGT 4000. Construction Estimating (3) (Formerly CMGT 4660) (P: Minimum grade of C in CMGT 3500; minimum overall GPA of 2.0; P/C: CMGT 3400)*
CMGT 4100. Construction Planning and Scheduling (3) (Formerly CMGT 4662) (P: Minimum overall GPA of 2.0; P/C with CMGT 4000)
CMGT 4200. Construction Cost Control (3) (P: Minimum grade of C in CMGT 4100; minimum overall GPA of 2.0)

*For students seeking CMGT minor P/C CMGT 3400 will be waived

http://www.ecu.edu/cs-acad/ugcat/CoursesC.cfm#cmgt

CMGT: Construction Management
2200. **Introduction to the Construction Industry** Overview (3, 2)
   History and the role of construction management. Role of construction within residential, commercial, and heavy industries.

2210, 2211. Construction and Civil Materials (3.0)
   2 lecture and 2 lab hours per week. P: Minimum overall GPA of 2.0; majors or minors only; P/C: MATH 1065 or 1066. Introduction to construction materials with an emphasis on the physical characteristics, properties, and significance of the materials to the industry.

2558. Residential Construction Techniques (3)
   P: CMGT 2210; minimum overall GPA of 2.0; minimum grade of C in CMGT 2210. Selection criteria and graphical interpretation of materials and techniques of residential buildings. Considers performance, code requirements, maintainability, and cost benefit aspects related to the different sectors of residential construction.

2660, 2661, 2400, 2401. Structural Materials, Systems and Codes
   Building Systems and Codes (3, 4, 0) Formerly CMGT 2660, 2661
   2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 2210; Minimum minimum overall GPA of 2.0; Minimum grade of C in CMGT 2210. Selection criteria and graphical interpretation of concrete, steel, masonry and wood used in foundation, substructure, and superstructure of residential and commercial buildings. Considers performance, maintainability and cost/benefit aspects. Introduces major building codes, materials and industry standards, and utilization of manufacturers' catalogs. Interpretation of structural and interior and exterior finishing systems in residential and commercial buildings. Introduces major building codes, materials and industry standards, and utilization of manufacturers' catalogs.

2664, 2665. Interior and Exterior Finishes and Systems (3,0)
   2 lecture and 2 lab hours per week. P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 2660. Selection criteria and graphical interpretation of common interior and exterior finish systems, exterior cladding, roofing, and interior systems of buildings. Considers aesthetics, performance, code requirements, maintainability, and cost/benefit aspects.

3100 2600. Construction Plans Documents and Analysis (3) Formerly CMGT 3100
   2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 2400; Minimum minimum overall GPA of 2.0; CMGT-2800; P/C: CMGT-2558 or 2664. Practical exercises in reading and evaluating plans for construction projects to discern project design, construction materials, and construction placement techniques. Emphasis on understanding graphic communication methods.

2800 3010. Foundations of Construction Construction Modeling and Information Technology (3) Formerly CMGT 2800
   2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 2600; Minimum minimum overall GPA of 2.0; minimum grade of C in CMGT 2210; computer related
elective ITEC 2000 or MIS 2223 or equivalent computer-related elective. Graphical expression of construction and architectural elements through use of CAD and drafting techniques, including lettering, orthographic and isometric projection, descriptive geometry, 3D and Building Information Modeling (BIM) software including construction document organization and preparation, and specifications.

3150. Residential Construction Techniques (3) Formerly CMGT 2558
P: Minimum grade of C in CMGT 2400; minimum overall GPA of 2.0. Selection criteria and graphical interpretation of materials and techniques of residential buildings. Considers performance, code requirements, maintainability, and cost benefit aspects related to the different sectors of residential construction.

3400. Structural Analysis (3) Formerly CMGT 3660
P: Minimum grade of C in CMGT 2600; minimum overall GPA of 2.0; minimum grade of C in CMGT 2558 or 2664; MATH 1074 or 1075 or equivalent; PHYS 1250, 1251. Introduces statics, strength of materials, and structural analysis as related to stability of building’s structural components. Topics include building loads resulting in compressive and tensile forces in columns, beams, and trusses; strength of components to resist such loads; analysis of components under varying load conditions; and basic design considerations of common temporary construction structures such as formwork, bracing of vertical elements, rigging for lifts, and retaining walls.

3500. Construction Contracts and Specifications (3) Formerly CMGT 3664
P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; Minimum grade of C in CMGT 2558 or 2664; P/C: CMGT 3100 3010. Practices and principles in use of contract documents and specifications as they apply to construction project. Emphasis on relationship to construction process and project management.

3662, 3663 3600. Mechanical and Electrical Construction (3,0) (3) Formerly CMGT 3662, 3663
2 lecture and 2 lab hours per week. P: Minimum overall GPA of 2.0; P/C: CMGT 3664 3500. Study of mechanical, electrical, and plumbing systems, applicable codes, and effect on the construction process. Emphasis on air conditioning, heating, plumbing, fire protection, electrical power and lighting, and control systems with coordination to Coordination with various construction documents formats and media.

3666, 3667 3700, 3701. Construction Surveying (3,0) Formerly CMGT 3666, 3667
2 lecture and 3 lab hours per week. P: Minimum grade of C in CMGT 2600; Minimum overall GPA of 2.0; CMGT 3100; MATH 1074 or 1075 or equivalent. Construction aspects of surveying with field and classroom exercises in use of transit, level, tape, and related surveying equipment. Problems and exercises in traverse closure and pipeline, grading, street, curve, and building layout.

3710, 3711. Infrastructure and Highway Materials (3,0)
2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 3500; minimum overall GPA of 2.0; P/C: CMGT 3800. Physical characteristics and properties of heavy
civil, highway, and infrastructure materials. Technical specifications and quality control and assurance procedures emphasized.

3766,3767 3800, 3801. Soils and Foundations (3,0) Formerly CMGT 3766, 3767
Formerly CMGT 2666 2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 2600; Minimum \textit{minimum} overall GPA of 2.0; minimum grade of C in CMGT 2558 or 2664; GEOL 1500, 1501; MATH 1074 or 1075 or equivalent; PHYS 1250, 1251. Fundamentals of soil mechanics as related to soil classification and construction of earthwork and foundations.

3726 3900. Construction Project Safety Management (3) Formerly CMGT 3726
P: Minimum grade of C in CMGT 3500; Minimum \textit{minimum} overall GPA of 2.0; minimum grade of C in CMGT 3664. Use of safety management as a company profit center with focus on estimating and scheduling of required safety standards as they impact the sixteen CSI divisions. Includes safety control strategies based on training, programs, and culture.

3558 3950. Residential Development (3) Formerly CMGT 3558
P: CMGT 2558 Minimum grade of C in CMGT 3150; minimum overall GPA of 2.0; minimum grade of C in CMGT 2558. Introduction to the selection criteria for land development, planning principles, codes and regulations, and design approaches for residential construction of small to large units.

4558. Residential Capstone (3)
P: CMGT 3558; minimum overall GPA of 2.0; minimum grade of C in CMGT 3558, 3662, 3664, 4660, 4662. Integrates multiple aspects of the residential construction management process through the use of technical and human resources utilizing Construction Documents as the primary resource for the course.

4660 4000. Construction Estimating (3) Formerly CMGT 4660
P: Minimum grade of C in CMGT 3500; minimum overall GPA of 2.0; minimum grade of C in CMGT 3664; P/C: CMGT 3660 3400. Procedures to quantify materials, labor, and equipment for construction. Emphasis on classification of work, quantity survey techniques, cost estimating and understanding of schedule of values with coordination to construction documents.

4662 4100. Construction Planning and Scheduling (3) Formerly CMGT 4662
P: Minimum overall GPA of 2.0; minimum grade of C in CMGT 4660 P/C: CMGT 4000. Applies planning and scheduling techniques to construction projects. Emphasis on bar charts, critical path method (CPM), cost allocation, schedule updating, cash flow, and resource scheduling with coordination to construction documents.

4200. Construction Cost Control (3)
P: Minimum grade of C in CMGT 4100; minimum overall GPA of 2.0. Project-level cost control and construction economics. Emphasizes labor cost control, project cash flow, and analysis of capital expenditures. Other topics are order of magnitude estimating.
equipment cost control, material cost control, subcontract cost control, and construction claims.

4600, 4601. 4300. Managing Construction Quality (3,0) Construction Quality and Human Resource Management (34) (WI) Formerly CMGT 4600, 4601
2 lecture and 2 lab hours per week. P: Minimum grade of C in CMGT 4200; Minimum minimum overall GPA of 2.0; CMGT 3662; ITEC 3290; P/C: CMGT 4662. Quality management and assurance techniques relevant to develop a Quality Management System incorporating productivity, documentation, and quality control. Identify tests, inspections, and quality control methods as specified by construction documents and regulatory criteria. Issues in construction quality and human resource management incorporating safety methods, utilizing group and individual relationships among construction personnel to comply with laws and regulations.

4310. Infrastructure Construction Techniques (3)
P: Minimum overall GPA of 2.0; P/C: CMGT 4200. Plans and specifications of infrastructure systems including construction techniques and processes. Schedule management of infrastructure projects using CPM and linear scheduling.

4320. Construction Sustainability (3)
P: Minimum overall GPA of 2.0; senior standing. Concepts of sustainability and design as applied in construction, including means, methods, and practices associated with sustainability in the built environment.

4340. Construction Economics (3)
P: Minimum overall GPA of 2.0; ECON 2133. Economic and financial factors that influence managerial decisions in the construction industry. Emphasis on decisions involving the time-value of money.

4668. Human Side of Project Management (3)
P: Minimum overall GPA of 2.0; MGMT 3202; minimum earned credit hours equal to 110 s.h. Developing group and individual relationships among construction personnel to comply with laws and regulations governing human element in construction project process.

4666 4380. Equipment Management (3) Formerly CMGT 4666
P: Minimum overall GPA of 2.0; CMGT 3660, 3766 3400, 3800. Productivity, performance, and maintenance requirements of construction equipment.

4664 4400. Commercial Capstone (3) Construction Capstone (4) Formerly CMGT 4664
P: Minimum grade of C in CMGT 4300; Minimum minimum overall GPA of 2.0; CMGT 4600; minimum grade of C in CMGT 4662. Senior level capstone class that integrates all aspects of the construction management process. Employ knowledge and techniques acquired in the construction management program to manage a construction project. Emphasis on team interactions, project management, decision making, and
problem solving utilizing current construction documents. Specific course sections designated for program concentrations.

4699 4500. Construction Work Experience and Professional Development (1) Formerly CMGT 4699
P: Minimum overall GPA of 2.0; completed senior summary; applied to graduate; P/C: CMGT 4664 4400; graduating semester. Required of all construction management students. Minimum of 500 documented hours of construction work with state licensed general contractor, subcontractor, construction management company, or other approved employment. Students must pay a fee and sit for the American Institute of Constructors Level I Certification exam during the last semester before graduating.

4501. Laboratory Problems: Construction Management (3)
6 lab hours per week. P: Minimum overall GPA of 2.0; consent of CMGT instructor. Independent study to gain further expertise in particular area of construction management.

4502, 4503, 4504. Independent Study: Construction (1,2,3)
P: Minimum overall GPA of 2.0; consent of dept chair. Special topics in selected areas of construction. Exploration and research in personal areas of interest.

4505. Special Projects (1-3) (WI)
P: Minimum overall GPA of 2.0; consent of dept chair. Develop and submit business and management documents that pertain to varied aspects of construction.

4506. Laboratory Problems: Woods Processing Technology (3)
6 lab hours per week. P: Minimum overall GPA of 2.0; consent of dept chair. Selected concepts and processes in woods processing technology.

5503. Independent Study: Construction (3)
May be repeated for credit with consent of dept chair. Research oriented. Problem solving with tools, materials, and processes of construction industry.

CMGT Banked Courses
3101. Construction Plans and Analysis Lab (0)
2242. Engineering Economics (3)
3278. Hydraulics (3)
4266. Route Surveying (4)